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TEXTILE ORGANON

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MAN-MADE FIBER, COTTON & WOOL END USE SURVEY

HIGHLIGHTS

- Annual Man-Made Fiber, Cotton and Wool End Use Survey
- Man-Made Fiber & Semimanufactured Imports 1980-1986 . . . see page 209.
- First Seven Months U.S. Imports of Man-Made Fiber up 4.0% . . . see page 222.
- First Seven Months U.S. Exports of Man-Made Fiber up 7.6% . . . see page 223.

This month's issue of the ***Textile Organon*** contains our annual report of U.S. man-made, cotton and wool fiber consumption by end use. This report is part of a continuing series covering fiber end use for the 38 years 1949-1986.

The objective of this survey is to measure the amount of raw man-made, cotton and wool fiber required to produce the various end use items. Many other fibers such as silk, linen, jute and sisal are used in the various products covered by the survey, but no poundage data for these fibers are included in the end usages.

Comparability With Past Data

Every year we report the most up-to-date information on fiber end use, which means previous data must sometimes be revised. Data in a series which has been revised will be denoted by an "r". Changes in definitions or coverage in an end use item will be noted in the definitions.

For example, data on glass fiber are no longer available to prevent disclosure of company-level data. These data were last reported in the September 1985 issue. This year, there are new definitions for waste, apparel, home furnishings and industrial and other consumer-type items.

The data in this survey may be used in conjunction with earlier issues of the ***Textile Organon*** as follows:

Years	*Textile Organon Issues*
1949-1955	November 1961
1956-1959	January 1966
1960-1963	January 1970
1964-1965	November 1971
1966-1967	November 1973
1968-1969	November 1975
1970	November 1976
1971-1972	November & December 1978
1973	November 1980
1974	November 1981
1975	November 1982
1976	November 1983
1977	September 1984
1978	September 1985
1979	September 1986

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TABLE 1:
U.S. FIBER CONSUMPTION BY END USE [a]

	TOTAL FIBER								MAN-MADE FIBER							
	MILLION POUNDS				% OF TOTAL END USE [b]				MILLION POUNDS				% OF TOTAL END USE [b]			
END USE	1983	1984	1985	1986	1983	1984	1985	1986	1983	1984	1985	1986	1983	1984	1985	1986
APPAREL	4565	4389	4318	4920	*41*	*39*	*37*	*39*	2766	2500	2375	2637	*34*	*31*	*29*	*30*
HOME FURNISHINGS	1730	1837	1864	1919	*15*	*16*	*16*	*15*	913	953	953	889	*12*	*12*	*12*	*10*
FLOOR COVERINGS	2207	2287	2568	2803	*19*	*20*	*22*	*22*	2180	2259	2538	2767	*27*	*28*	*31*	*32*
INDUSTRIAL & OTHER CONS. - TYPE PROD	2434	2505	2454	2614	*22*	*22*	*21*	*21*	2038	2108	2080	2238	*25*	*26*	*26*	*25*
EXPORTS	284	280	328	384	*3*	*3*	*4*	*3*	186	191	210	232	*2*	*3*	*2*	*3*
TOTAL END USE	11220	11298	11532	12640	*100*	*100*	*100*	*100*	8083	8011	8156	8763	*100*	*100*	*100*	*100*

All data are drawn from the U.S. End Use Summary table on page 207.

NOTE: Data on Glass Fiber is no longer available due to company disclosure. The series, including Glass Fiber was last published in the September 1985 issue.

a. Includes domestic shipments, fiber, yarn, fabric imports and waste.

b. The percentages in these columns show the usage of each type of fiber by its major end use categories. They add to 100% vertically in each case.

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Textile Organon

A Monthly Review

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U.S. Fiber Consumption by End Use

In 1986, total end use fiber consumption was 12,640 million pounds, up 9.6% from 11,532 million pounds in 1985. All major categories increased from a year ago, including apparel, up 13.9% to 4,920 million pounds, home furnishings, up 3.0% to 1,919 million pounds, floor coverings, up 9.2% to 2,803 million pounds, industrial & other consumer- type products, up 6.5% to 2,614 million pounds and exports, up 17.1% to 384 million pounds.

1986 total fiber consumption breaks down by fiber type as follows: man-made, 8,763 million pounds, up 7.4% from the 1985 level; cotton, 3,661 million pounds, up 15.1%; and wool, 216 million pounds, up 11.3%. (See Table 2)

(In this survey, end use is a measure of raw fiber required to produce a particular end use item. It does not include finished product imports such as apparel, blankets, tablecloths and rugs.)

Fiber Producer Shipments Improve in August While Inventories Decline

Shipments of noncellulosic yarn+monofilaments totaled 339.8 million pounds in August, up 5.0% from 323.7 million pounds in July. On a year-to-date basis through August, shipments were 6.3% greater than in the corresponding 1986 period (2,652.1 mm lbs vs. 2,494.0 mm lbs.)

August shipments of noncellulosic staple+tow at 352.7 million pounds were 4.5% above the prior month's shipments of 337.6 million pounds, while January-August 1987 shipments of 2,861.6 million pounds gained 10.3% from a year ago.

All man-made fiber inventories ending August were down. Noncellulosic yarn+monofilaments stocks totaled 290.5 million pounds, off 3.8% from July, while noncellulosic staple+tow stocks were down 3.4% to 345.1 million pounds. (See Table 16)

Man-Made Fiber Imports & Exports

Total man-made fiber imports were 30.5 million pounds in July, down 1.9% from June. For the first seven months of 1987, man-made fiber imports posted a slight gain from the prior year, up 4.0% to 226.9 million pounds. Continued strength was noted in imports of textured polyester. Through July 1987, these imports totaled 9.1 million pounds, up 28.2% from January-July 1986 imports. Polyester staple imports also continued to be strong, up 86.4% from the corresponding seven months period last year. (See Table 12)

Some of the major suppliers of noncellulosic man-made fiber imports in the January-July 1987 period were as follows:

Country of Origin	Noncellulosic Yarn MM LBS	Country of Origin	Noncellulosic Staple & Tow MM LBS
Germany, Fed. Rep.	14.2	Canada	19.1
Mexico	12.0	Germany, Fed. Rep.	16.1
Canada	10.5	Japan	13.8
Italy	7.6	Taiwan	13.2
Belgium	6.1	Mexico	12.0
Total Above	**50.4**	**Total Above**	**74.2**

The countries listed above represent 69% of noncellulosic yarn imports and 67% of noncellulosic staple+tow imports. (See Table 11)

Total man-made fiber exports were 57.7 million pounds in July, down 15.3% from June. In the January-July 1987 period, man-made fiber exports posted a slight gain from the prior year, up 7.6% to 437.8 million pounds. (See Table 13)

Continued From Front Page

SURVEY COVERAGE

Table Presentation

End use data are presented by type of fiber, man-made, cotton and wool; by type of end use product; and by exports of domestic semimanufactured products. All data are in millions of pounds.

Table 1 shows both total and man-made fiber consumption by end use for the years 1983, 1984, 1985 and 1986. In addition to the pounds of fiber consumed, the percentage of total end use is reported for five categories: apparel, home furnishings, floor coverings, industrial and other consumer-type products and exports.

Table 2 presents greater fiber and annual detail than Table 1. Percentage distributions are given for both total end use and for individual end uses.

Tables 3, 4 & 5 will be discussed below under the heading "End Use Versus Available Supply."

Tables 6 through 10 give further detail on each of the five end uses reported in Table 2, covering the same seven year period 1980-1986. The major changes in Tables 6-10 this year are: (1) Item 55 "Retail Piece Goods" are now distributed between "Topweight Fabrics" and "Bottomweight Fabrics" (Table 6). (2) Home Furnishings (Table 7) no longer include any floor covering information. (3) Fiber used in floor coverings is reported in a separate table (Table 8).

The substantial imports of finished products, such as apparel, blankets, tablecloths and rugs are not included in this survey as they are not manufactured in domestic mills.

Fibers Covered

The man-made fiber data are presented in two general categories. Cellulosic, which includes rayon and acetate, and Noncellulosic, which includes nylon, polyester, acrylic and olefin. Textile glass fiber is no longer included. See footnote (b) under General Notes on page 217 for additional descriptions. The cotton end use data cover raw cotton. Cotton waste and cotton linters quantities are excluded, except when pertaining to waste. See the section describing waste fiber coverage for further explanation. Wool data cover both virgin and reprocessed and reused wool.

The man-made fiber data are based on producers' domestic shipments plus imports of fiber, yarn and semimanufactured products. For cotton, the data of the National Cotton Council, primarily from its publication "Cotton Counts Its Customers", and for wool, the Wool Bureau and government data as well as estimates from other trade sources were employed.

SURVEY WASTE FIBER COVERAGE

In the survey, textile fiber waste is handled in three different ways: First, end uses which employ waste fiber, either wholly or in part without preliminary processing are not included (e.g., furniture stuffing, mattress felts, punched or needled felts for carpet & rug underlays, pressed wool felts and some nonwoven fabrics).

Second, for certain end uses which utilize both new fiber and the fiber derived from processed waste, the quantities shown have been calculated so as to exclude the waste component inasmuch as possible.

And third, waste which has been processed into usable spinnable fiber is included in the quantities shown for Blankets (Item 46), Carpets & Rugs (Item 50) and a number of other applications. It is important to note that in products such as these, fiber derived from waste by preliminary processing, especially for the man-made fiber quantities, is a significant and measured part of the total end use.

END USE VERSUS AVAILABLE SUPPLY

Available Supply (mill consumption plus semimanufactured imports) is compared with End Use Consumption, in Table 4 on page 208. There are several reasons for the differences between these two series, many of which are related to the specific fibers.

COTTON: The National Cotton Council reports that there are two principal reasons why end use consumption is below available supply: (1) many small end uses are not included in the survey and (2) estimates of materials consumed are based on "typical" cotton yarns and fabrics, not on the actual weights of every type of yarn and fabric consumed in the various end uses.

Timing and inventory changes also play a significant role. For example, some raw cotton correctly reported as "consumed" by the Census Bureau in a calendar year is not actually incorporated into end products until the next year because of time lags and inventory fluctuations involved in moving from raw fiber in the bale to a finished garment or other textile product. Similarly, an indeterminate amount of cotton consumed in any year may not be embodied in finished products until the following year.

As noted, the cotton series presented in this survey are mainly those of the National Cotton Council as published in its annual survey "Cotton Counts Its Customers" (1987 and earlier editions).

WOOL: Blends of wool with other fibers are common in many end uses, but little information is available on the fiber composition of these blends. Thus, relatively reliable measures are available mainly on the wool poundages used in Home Furnishings (blankets and carpets) and such Apparel items as Craft Yarns.

These quantities were deducted from the Available Supply in Table 3, page 208, and residual quantities were then attributed to Apparel Usage in individual apparel items from the years 1980-1986. This was calculated by correlating the data of Census reports MA-23A and MQ-22T on Apparel and Broad Woven Goods, respectively.

Continued On Page 207

TABLE 2:
U.S. END USE SUMMARY EXCLUDING GLASS FIBER
MILLION POUNDS & *PERCENT*

END USE & YEAR	GRAND TOTAL			COTTON			WOOL			MAN-MADE FIBERS			MAN-MADE FIBER DETAIL								
													CELLULOSIC					NONCELLULOSIC			
													TOTAL			YARN	STAPLE	TOTAL			YARN	STAPLE
	LBS	%[a]	%[b]	LBS	%[a]	%[b]	LBS	%[a]	%[b]	LBS	%[a]	%[b]	LBS	%[a]	%[b]	LBS	LBS	LBS	%[a]	%[b]	LBS	LBS
APPAREL																						
1980	4696	100	41.9	1652	35.2	52.9	125	2.7	74.9	2919	62.1	36.9	297	6.3	39.7	220	77	2622	55.8	36.6	1306	1316
1981	4431	100	41.0	1595	36.0	54.8	149	3.4	76.4	2687	60.6	34.9	311	7.0	42.9	194	117	2376	53.6	34.0	1181	1195
1982	4027	100	41.8	1557	38.6	57.2	127	3.2	74.7	2343	58.2	34.7	213	5.3	40.0	142	71	2130	52.9	34.3	986	1144
1983	4565	100	40.7	1646	36.1	56.1	153	3.4	75.0	2766	60.6	34.2	228	5.0	39.6	154	74	2538	55.5	33.8	1173	1365
1984	4389	100	38.8	1718	39.1	56.2	171	3.9	74.0	2500	57.0	31.2	239	5.5	41.4	153	86	2261	51.5	30.4	1117	1144
1985	4318	100	37.4	1802	41.7	56.6	141	3.3	72.7	2375	55.0	29.1	208	4.8	38.4	141	67	2167	50.2	28.5	1086	1081
1986	4920	100	38.9	2125	43.2	58.0	158	3.2	73.1	2637	53.6	30.1	250	5.1	41.3	151	99	2387	48.5	29.3	1039	1348
HOME FURNISHINGS																						
1980	1717	100	15.3	787	45.8	25.2	15	0.9	9.0	915	53.3	11.6	169	9.9	22.6	47	122	746	43.4	10.4	175	571
1981	1672	100	15.5	733	43.8	25.2	17	1.0	8.7	922	55.2	12.0	155	9.3	21.4	36	119	767	45.9	11.0	186	581
1982	1425	100	14.8	665	46.7	24.4	16	1.1	9.4	744	52.2	11.0	104	7.3	19.5	26	78	640	44.9	10.2	170	470
1983	1730	100	15.4	798	46.1	27.2	19	1.1	9.2	913	52.8	11.3	134	7.7	23.2	28	106	779	45.1	10.4	241	538
1984	1837	100	16.3	863	47.0	28.2	21	1.1	9.1	953	51.9	11.9	134	7.3	23.2	28	106	819	44.6	11.0	245	574
1985	1864	100	16.2	893	47.9	28.1	18	1.0	9.3	953	51.1	11.7	125	6.7	23.0	18	107	828	44.4	10.9	281	547
1986	1919	100	15.2	1012	52.8	27.6	18	0.9	8.3	889	46.3	10.1	131	6.8	21.6	17	114	758	39.5	9.3	234	524
FLOOR COVERINGS																						
1980	1926	100	17.2	15	0.8	0.5	10	0.5	6.0	1901	98.7	24.0	+	0	0	0	+	1901	98.7	26.5	1002	899
1981	1838	100	17.0	12	0.7	0.4	12	0.6	6.2	1814	98.7	23.5	1	0.1	0.1	0	1	1813	98.6	26.0	918	895
1982	1711	100	17.7	10	0.6	0.4	11	0.6	6.5	1690	98.8	25.0	1	0.1	0.2	0	1	1689	98.7	27.2	834	855
1983	2207	100	19.7	14	0.6	0.5	13	0.6	6.4	2180	98.8	27.0	1	0.1	0.2	0	1	2179	98.7	29.0	1064	1115
1984	2287	100	20.2	14	0.6	0.5	14	0.6	6.1	2259	98.8	28.2	1	0.1	0.2	0	1	2258	98.7	30.4	1162	1096
1985	2568	100	22.3	18	0.7	0.6	12	0.5	6.2	2538	98.8	31.1	1	0	0.2	0	1	2537	98.8	33.3	1399	1138
1986	2803	100	22.2	20	0.7	0.6	16	0.6	7.4	2767	98.7	31.6	2	0.1	0.3	0	2	2765	98.6	33.9	1535	1230
INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS																						
1980	2249	100	20.1	412	18.3	13.2	11	0.5	6.5	1826	81.2	23.1	251	11.2	33.6	42	209	1575	70.0	22.0	943	632
1981	2381	100	22.0	404	17.0	13.9	12	0.5	6.2	1965	82.5	25.5	230	9.7	31.7	41	189	1735	72.8	24.8	1058	677
1982	2141	100	22.2	377	17.6	13.8	10	0.5	5.9	1754	81.9	26.0	195	9.1	36.7	30	165	1559	72.8	25.1	920	639
1983	2434	100	21.7	382	15.7	13.0	14	0.6	6.9	2038	83.7	25.2	196	8.1	34.0	23	173	1842	75.6	24.5	987	855
1984	2505	100	22.2	376	15.0	12.3	21	0.8	9.1	2108	84.2	26.3	187	7.5	32.4	28	159	1921	76.7	25.8	998	923
1985	2454	100	21.3	361	14.7	11.3	13	0.5	6.7	2080	84.8	25.5	192	7.9	35.4	30	162	1888	76.9	24.8	969	919
1986	2614	100	20.7	361	13.8	9.9	15	0.6	6.9	2238	85.6	25.5	204	7.8	33.7	28	176	2034	77.8	24.9	1107	927
EXPORTS OF DOMESTIC PRODUCTS																						
1980	617	100	5.5	259	42.0	8.2	6	1.0	3.6	352	57.0	4.4	31	5.0	4.1	20	11	321	52.0	4.5	141	180
1981	490	100	4.5	166	33.9	5.7	5	1.0	2.5	319	65.1	4.1	28	5.7	3.9	17	11	291	59.4	4.2	121	170
1982	339	100	3.5	115	33.9	4.2	6	1.8	3.5	218	64.3	3.3	19	5.6	3.6	12	7	199	58.7	3.2	83	116
1983	284	100	2.5	93	32.7	3.2	5	1.8	2.5	186	65.5	2.3	17	6.0	3.0	11	6	169	59.5	2.3	70	99
1984	280	100	2.5	85	30.4	2.8	4	1.4	1.7	191	68.2	2.4	16	5.7	2.8	10	6	175	62.5	2.4	73	102
1985	328	100	2.8	108	32.9	3.4	10	3.0	5.1	210	64.1	2.6	16	4.9	3.0	9	7	194	59.1	2.5	76	118
1986	384	100	3.0	143	37.3	3.9	9	2.3	4.3	232	60.4	2.7	19	4.9	3.1	11	8	213	55.5	2.6	88	125
TOTAL END USE																						
1980	11205	100	100	3125	27.9	100	167	1.5	100	7913	70.6	100	748	6.7	100	329	419	7165	63.9	100	3567	3598
1981	10812	100	100	2910	26.9	100	195	1.8	100	7707	71.3	100	725	6.7	100	288	437	6982	64.6	100	3464	3518
1982	9643	100	100	2724	28.2	100	170	1.8	100	6749	70.0	100	532	5.5	100	210	322	6217	64.5	100	2993	3224
1983	11220	100	100	2933	26.1	100	204	1.8	100	8083	72.1	100	576	5.2	100	216	360	7507	66.9	100	3535	3972
1984	11298	100	100	3056	27.1	100	231	2.0	100	8011	70.9	100	577	5.1	100	219	358	7434	65.8	100	3595	3839
1985	11532	100	100	3182	27.6	100	194	1.7	100	8156	70.7	100	542	4.7	100	198	344	7614	66.0	100	3811	3803
1986	12640	100	100	3661	29.0	100	216	1.7	100	8763	69.3	100	606	4.8	100	207	399	8157	64.5	100	4003	4154

NOTE: Data on Glass Fiber is no longer available due to company disclosure. The series, including Glass Fiber was last published in the September 1985 issue.

a. The percentages in these columns show the share of each fiber in the specified end use each year. They add horizontally to the 100% shown in each of the Grand Total columns.

b. The percentages in these columns show the usage of each type of fiber by it major end use categories. They add vertically to the 100% shown under Total End Use Consumption.

Continued From Previous Page

MAN-MADE FIBERS: As will be seen, there is relatively good correlation between End Use Consumption and Available Supply.

The fluctuations of producers' domestic shipments, as well as imports, from year to year are significant. In years when there is a large increase in domestic shipments plus imports of fiber (Available Supply), it is probable that some of the increase went into mill and manufactures' inventories rather than directly into end uses. Both warehouse inventories of yarn and staple and goods-in-process inventories would be involved. For example, it is likely that some of the large increase in the Availabel Supply between 1982-1983 was absorbed in inventories at various stages of the production process. In a period when Available Supply falls sharply (1981-1982, for instance) the movement is reversed. In a period of slower activity, mills and manufactures reduce their warehouse inventories and work-in-process to reflect the lower level of activity.

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TABLE 3:
END USE CONSUMPTION INCLUDING SEMIMANUFACTURED IMPORTS
MILLION POUNDS

	MAN-MADE FIBERS								COTTON			WOOL					
	MILL CONSUMPTION[a]																
	CELLULOSIC			NONCELLULOSIC													
YEAR	YARN	STAPLE[b]	TOTAL	YARN	STAPLE[b]	TOTAL	IMPORTS[c]	TOTAL	MILL CONS.[a]	IMPORTS[d]	TOTAL	MILL CONS.[a]	REPRO-CESSED & REUSED[e]	COTTON SYSTEM[e]	IMPORTS[d]	TOTAL	AVAIL-ABLE SUPPLY
1980	325.0	415.7	740.7	3551.6	3593.4	7145.0	111.6	7997.3	3064.4	277.8	3342.2	137.8	10.5	3.8	25.3	177.4	11516.9
1981	283.6	430.7	714.3	3502.0	3505.2	7007.2	141.1	7862.6	2730.8	374.4	3105.2	152.7	8.3	3.2	32.8	197.0	11164.8
1982	206.1	316.0	522.1	2917.7	3213.7	6131.4	143.9	6797.4	2478.9	295.0	2773.9	129.5	5.7	3.0	33.3	171.5	9742.8
1983	241.8	356.8	598.6	3433.7	3962.2	7395.9	196.0	8190.5	2795.7	388.4	3184.1	162.5	8.1	3.3	35.7	209.6	11584.2
1984	228.3	359.6	587.9	3398.6	3803.0	7201.6	242.4	8031.9	2668.2	505.4	3173.6	163.2	7.6	5.5	55.3	231.6	11437.1
1985	201.0	344.6	545.6	3663.8	3826.1	7489.9	295.2	8330.7	2796.0	493.5	3289.5	134.7	5.3	4.2	51.3	195.5	11815.7
1986	209.1	399.2	608.3	3747.3	4098.4	7845.7	341.4	8795.4	3297.5	638.8	3936.3	164.5	9.5	4.1	40.1	218.2	12949.9

NOTE: Data on Glass Fiber is no longer available due to company disclosure. The series, including Glass Fiber was last published in the September 1985 issue.

a. Mill Consumption is taken from page 75 of the 1987 April ***Organon*** plus subsequent revisions.

b. Man-made staple includes waste.

c. Imports are taken from page 209 of this issue.

d. Imports of Cotton and Wool are taken from page 192 of the August 1987 ***Organon*** issue.

e. These volumes of reprocessed and reused wool, as well as wool consumed on the cotton spinning system, are not included in the mill consumption series for wool (see page 36 of the February 1970 ***Organon***). However, they are considered here as part of the available supply of wool as shown in the table below.

TABLE 4:
END USE VERSUS AVAILABLE SUPPLY - COMPARISON OF TABLE 2 TO TABLE 3
MILLION POUNDS & *PERCENT*

	1980			1981			1982			1983			1984			1985			1986		
	AVAIL-ABLE[a]	END USE[b]	%[c]	AVAIL-ABLE[a]	END USE[b]	%[c]	AVAIL-ABLE[a]	END USE[b]	%[c]	AVAIL-ABLE[a]	END USE[b]	%[c]	AVAIL-ABLE[a]	END USE[b]	%[c]	AVAIL-ABLE[a]	END USE[b]	%[c]	AVAIL-ABLE[a]	END USE[b]	%[c]
COTTON	3342	3125	*93.5*	3105	2910	*93.7*	2774	2724	*98.2*	3184	2933	*92.1*	3174	3056	*96.3*	3290	3182	*96.7*	3936	3661	*93.0*
WOOL	177	167	*94.4*	197	195	*99.0*	171	170	*99.4*	210	204	*97.1*	232	231	*99.6*	196	194	*99.0*	218	216	*99.1*
TOTAL COTTON & WOOL	**3519**	**3292**	***93.5***	**3302**	**3105**	***94.0***	**2945**	**2894**	***98.3***	**3394**	**3137**	***92.4***	**3406**	**3287**	***96.5***	**3486**	**3376**	***96.8***	**4154**	**3877**	***93.3***
CELL. - YARN[d]	329	329	*100.0*	289	288	*99.7*	212	210	*99.1*	242	216	*89.3*	228	219	*96.1*	201	198	*98.5*	209	207	*99.0*
- STAPLE[e]	421	419	*99.5*	437	437	*100.0*	322	322	*100.0*	360	360	*100.0*	360	358	*99.4*	345	344	*99.7*	399	399	*100.0*
NONCELL. - YARN[d]	3640	3567	*98.0*	3618	3464	*95.7*	3034	2993	*98.6*	3591	3535	*98.4*	3595	3595	*100.0*	3914	3811	*97.4*	4024	4003	*99.5*
- STAPLE[e]	3608	3598	*99.7*	3519	3518	*99.9*	3230	3224	*99.8*	3997	3972	*99.4*	3848	3839	*99.8*	3870	3803	*98.3*	4163	4154	*99.8*
TOTAL MAN-MADE FIBER	**7998**	**7913**	***98.9***	**7863**	**7707**	***98.0***	**6798**	**6749**	***99.3***	**8190**	**8083**	***98.7***	**8031**	**8011**	***99.8***	**8330**	**8156**	***97.9***	**8795**	**8763**	***99.6***
TOTAL FIBERS	**11517**	**11205**	***97.3***	**11165**	**10812**	***96.8***	**9743**	**9643**	***99.0***	**11584**	**11220**	***96.9***	**11437**	**11298**	***98.8***	**11816**	**11532**	***97.6***	**12949**	**12640**	***97.6***

NOTE: Data on Glass Fiber is no longer available due to company disclosure. The series, including Glass Fiber was last published in the September 1985 issue.

a. Mill consumption plus the imports of semimanufactured products - from the table above.

b. End use from the summary table on page 207.

c. End use as a percentage of Available.

d. Includes monofilaments.

e. Includes tow, fiberfill and waste.

TABLE 5:
MAN-MADE FIBER & SEMIMANUFACTURED IMPORTS
MILLION POUNDS

	1980	1981	1982	1983	1984	1985	1986
CELLULOSIC FIBERS							
YARN	8.3	10.7	7.0	8.7	10.0	13.9	17.0
STAPLE	10.3	16.8	13.4	13.5	17.0	12.3	17.4
WASTE	0.3	0.5	0.4	0.3	0.5	0.5	0.1
NONCELLULOSIC FIBERS							
YARN - SINGLES							
NYLON - TEXTURED	3.2	3.8	4.7	5.1	18.0	32.4	36.7
- OTHER	3.6	4.0	5.5	14.8	30.2	18.4	22.5
POLYESTER - TEXTURED	0.3	0.8	0.5	2.2	10.8	16.6	14.6
- OTHER	6.7	5.4	5.3	13.6	15.7	16.7	22.5
OTHER - TEXTURED	0.2	0.5	4.4	7.7	8.9	14.7	20.5
- OTHER	1.4	1.6	1.6	2.7	2.5	2.5	5.1
MONOFILAMENTS	4.0	2.6	1.5	1.7	2.9	2.1	2.7
STRIPS, OVER $1/LB	0.2	0.2	0.3	0.6	1.0	1.2	1.5
SUBTOTAL ABOVE	**19.6**	**18.9**	**23.8**	**48.4**	**90.0**	**104.6**	**126.1**
STAPLE [a] NYLON	2.7	25.7	19.1	46.8	61.4	68.1	90.5
- POLYESTER	1.5	7.0	7.3	23.6	30.0	31.8	43.1
- ACRYLIC	15.9	13.9	12.3	20.3	20.4	25.1	30.5
- OLEFIN	0.1	1.1	0.6	1.1	2.2	5.7	1.9
- OTHER	15.3	12.7	11.8	9.7	17.1	28.7	16.8
SUBTOTAL ABOVE	**35.5**	**60.4**	**51.1**	**101.5**	**131.1**	**159.4**	**182.8**
WASTE, NOT ADVANCED - NYLON	11.7	25.3	22.2	26.8	31.2	27.2	22.4
- POLYESTER	6.0	18.1	11.2	13.0	8.0	7.1	6.3
- ACRYLIC	2.4	2.9	0.9	0.3	0.3	0.3	0.3
- OTHER	1.0	3.0	2.5	2.7	4.0	2.1	8.4
NOILS & GARNETTED FIBERS	+	0.1	0.1	0.2	0.4	0.2	0.2
OTHER WASTE, ADVANCED	0.6	0.6	0.9	3.1	6.7	3.8	2.7
SUBTOTAL ABOVE	**21.7**	**50.0**	**37.8**	**46.1**	**50.6**	**40.7**	**40.3**
TOTAL FIBER ABOVE [b]	**95.7**	**157.3**	**133.5**	**218.5**	**299.2**	**331.4**	**383.7**
SEMIMANUFACTURES							
SLIVER, TOPS & ROVING	2.8	3.7	2.7	4.9	4.7	2.1	3.4
YARNS, THROWN OR PLIED	2.2	4.8	6.7	10.6	15.4	23.7	23.6
SPUN YARNS	22.9	23.5	26.5	39.0	46.3	45.4	64.6
SEWING THREAD & HANDWORK YARN	2.3	2.8	2.3	3.4	5.7	9.7	4.8
WOVEN FABRICS	67.3	95.4	93.3	123.2	154.9	186.2	207.2
NARROW FABRICS	8.1	8.7	10.1	12.7	12.4	18.4	25.3
KNIT FABRIC	6.0	2.2	2.3	2.2	3.0	9.7	12.5
SUBTOTAL ABOVE	**111.6**	**141.1**	**143.9**	**196.0**	**242.4**	**295.2**	**341.4**
TEXTILE GLASS FIBER	7.3	18.2	14.1	20.0	23.1	34.7	24.4
TOTAL SEMIMANUFACTURES ABOVE [c]	**118.9**	**159.3**	**158.0**	**216.0**	**265.5**	**329.9**	**365.8**
GRAND TOTAL ABOVE	**214.6**	**316.6**	**291.5**	**434.5**	**564.7**	**661.3**	**749.5**

a. Includes grouped filaments.
b. **SOURCE:** U.S. Bureau of the Census.
c. **SOURCE:** U.S. Department of Agriculture, *Cotton and Wool Outlook Situation.*

For imports of fiber, the data are taken from the monthly summaries in each ***Organon.*** A listing of the commodity numbers used may be found on page 222 of this issue under the monthly import table.

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UNIT PRODUCTION VERSUS FIBER CONSUMED

This survey shows the quantity of raw fiber which had to be put into process in order to manufacture end products. No direct comparison can be, or should be, made between the quantities of the fibers consumed, as recorded in the survey, and the finished or "shelf" weight of those end products by fiber. Comparison should be avoided because:

1. The variation in the weight per square yard of fabric made of the different fibers for the same end use. According to recent data collected by the U.S. Census Bureau, cotton fabrics averaged 7.0 square yards per pound and wool 0.6 square yards per pound. But for man-made fiber, 100% filament yarn fabrics averaged 4.4 square yards per pound and spun yarn fabrics averaged 3.3 square yards per pound.

2. From these data, it is apparent that the "covering power" of fabrics made from the various fibers varies a great deal. Hence, a simple comparison of quantities of fibers consumed would be misleading both because of the differences in fibers concerning covering power and the difference in typical fabric weights of products made of the various fibers, as described.

Continued On Page 212

TABLE 6:
FIBER CONSUMED IN U.S. APPAREL PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MAN-MADE FIBERS					COTTON	WOOL
		TOTAL	CELLULOSIC		NONCELLULOSIC			
			YARN	STAPLE	YARN	STAPLE		
TOTAL APPAREL								
1980	r4696.3	r2919.0	220.2	76.8	1306.2	r1315.8	1651.9	125.4
1981	r4431.0	r2687.5	194.3	117.0	1180.8	r1195.4	1595.0	148.5
1982	r4027.4	r2342.9	141.9	r70.6	986.2	r1144.2	1557.1	127.4
1983	4565.3	2766.3	153.9	73.9	1173.3	1365.2	1646.0	153.0
1984	r4389.2	r2499.9	153.5	86.1	r1116.6	1143.7	r1718.6	170.7
1985	r4318.2	r2374.7	140.7	r66.9	r1086.5	r1080.6	r1801.8	141.7
1986	4920.3	2637.1	150.8	98.9	1039.6	1347.8	2125.3	157.9
40 SHEER HOSIERY (W)*								
1980	70.7	67.8	--	--	67.8	--	2.9	--
1981	76.4	69.9	--	--	69.9	--	6.5	--
1982	71.6	68.5	--	--	68.5	--	3.1	--
1983	80.7	77.2	--	--	77.2	--	3.5	--
1984	86.0	82.6	--	--	82.6	--	3.4	--
1985	r86.4	r83.0	--	--	r83.0	--	3.4	--
1986	90.7	87.2	--	--	87.2	--	3.5	--
19,41 ANKLETS & SOCKS (MW)*								
1980	186.4	151.9	--	0.5	56.9	94.5	32.1	2.4
1981	190.8	149.1	--	0.7	60.3	88.1	38.9	2.8
1982	r173.0	r139.9	--	0.4	51.7	r87.8	30.6	2.5
1983	195.2	152.6	--	0.5	65.0	87.1	39.6	3.0
1984	r190.5	131.5	--	0.5	59.5	71.5	r55.6	3.4
1985	r188.6	r122.7	--	0.4	r56.9	65.4	r63.2	2.7
1986	204.9	127.7	c	0.4	57.3	70.0	73.4	3.8
8,29 SWEATERS & RELATED ACCESSORIES								
1980	137.9	116.4	--	0.7	12.6	103.1	7.9	13.6
1981	140.0	113.8	--	0.6	0.9	112.3	10.1	16.1
1982	119.5	92.7	--	1.0	1.4	90.3	11.8	15.0
1983	142.9	104.8	--	1.2	0.4	103.2	20.1	18.0
1984	r167.4	113.7	--	1.2	0.5	112.0	r33.7	20.0
1985	r186.5	r110.3	--	1.2	0.6	r108.5	r59.4	16.8
1986	259.0	156.7	--	1.5	0.4	154.8	83.3	19.0
57 CRAFT & HANDWORK YARNS*								
1980	126.0	118.7	c	0.2	c	118.5	3.3	4.0
1981	100.6	92.9	--	0.7	c	92.2	3.0	4.7
1982	100.2	91.9	--	0.6	--	91.3	3.8	4.5
1983	106.1	97.4	--	0.1	--	97.3	4.0	4.7
1984	90.9	82.1	--	0.8	--	81.3	3.5	5.3
1985	r92.7	r85.1	--	0.1	0.3	r84.7	r3.3	4.3
1986	91.0	82.4	1.2	0.2	c	81.0	4.6	4.0
16-18 UNDERWEAR & NIGHTWEAR (M)*								
1980	250.9	104.0	c	0.8	26.2	77.0	145.9	1.0
1981	225.5	84.9	--	1.1	20.9	62.9	139.4	1.2
1982	226.0	79.6	--	--	16.3	63.3	145.4	1.0
1983	245.7	96.8	--	--	14.5	82.3	147.9	1.0
1984	r268.9	90.5	--	--	9.9	80.6	r177.4	1.0
1985	r264.0	r83.6	--	--	r8.0	75.6	r179.6	0.8
1986	303.8	108.7	--	--	12.4	96.3	194.9	0.2
35-39 UNDERWEAR, NIGHTWEAR, BRAS AND FOUNDATIONS (W)*								
1980	209.9	169.0	19.7	0.6	117.0	31.7	39.9	1.0
1981	202.4	162.0	18.3	c	111.0	32.7	39.2	1.2
1982	176.7	136.1	10.9	--	89.4	35.8	39.6	1.0
1983	196.6	153.0	12.5	--	105.0	35.5	42.6	1.0
1984	r178.0	130.7	8.6	--	99.9	22.2	r46.3	1.0
1985	r183.2	r136.7	6.8	--	r105.2	24.7	r45.7	0.8
1986	182.9	128.9	8.0	--	94.8	26.1	53.8	0.2
10,31 ROBES & LOUNGEWEAR (MW)*								
1980	145.7	126.3	63.0	0.4	38.0	24.9	17.0	2.4
1981	119.3	102.5	44.6	0.2	33.5	24.2	14.0	2.8
1982	84.3	67.4	34.5	--	23.7	9.2	14.6	2.3
1983	92.5	74.8	39.0	--	22.9	12.9	15.1	2.6
1984	r99.6	79.6	41.5	--	23.7	14.4	r17.1	2.9
1985	r89.7	r70.6	37.2	--	r20.3	r13.1	r16.8	2.3
1986	94.7	73.8	31.2	--	23.5	19.1	18.6	2.3

TABLE 6:
FIBER CONSUMED IN U.S. APPAREL PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE (CONTINUED)
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	TOTAL	MAN-MADE FIBERS				COTTON	WOOL
			CELLULOSIC		NONCELLULOSIC			
			YARN	STAPLE	YARN	STAPLE		
54a HIGH PILE FABRICS								
1980	100.4	100.4	--	0.1	14.3	86.0	--	--
1981	78.6	78.6	--	0.3	13.1	65.2	--	--
1982	64.1	64.1	--	--	7.0	57.1	--	--
1983	73.8	73.8	--	0.6	15.5	57.7	--	--
1984	61.4	61.4	--	0.3	9.7	51.4	--	--
1985	r57.1	r57.1	--	r--	6.4	r50.7	--	--
1986	59.0	59.0	--	--	10.6	48.4	--	--
54b FABRICS FOR LINING*								
1980	184.0	125.0	78.0	7.5	17.0	22.5	56.6	2.4
1981	199.0	144.7	92.7	3.4	19.2	29.4	51.5	2.8
1982	146.6	100.6	70.1	1.0	15.7	13.8	43.5	2.5
1983	139.2	99.7	66.7	1.0	24.0	8.0	36.6	2.9
1984	r153.7	109.6	79.8	1.9	21.7	6.2	r40.9	3.2
1985	r148.6	r103.5	74.2	1.5	r17.6	10.2	42.4	2.7
1986	179.4	133.9	98.3	3.6	18.5	13.5	42.7	2.8
43 APPAREL LACE (W)*								
1980	6.7	5.2	--	--	5.2	--	1.5	--
1981	8.0	6.5	--	--	6.5	--	1.5	--
1982	8.7	7.2	--	--	7.2	--	1.5	--
1983	8.4	6.9	--	--	6.9	--	1.5	--
1984	5.5	4.0	--	--	4.0	--	1.5	--
1985	6.1	4.6	--	--	4.6	--	1.5	--
1986	4.3	2.8	--	--	2.8	--	1.5	--
56a NARROW FABRICS*								
1980	52.8	29.6	7.5	0.3	17.2	4.6	23.2	--
1981	46.6	21.6	5.2	--	14.0	2.4	25.0	--
1982	40.8	17.8	0.9	--	15.3	1.6	23.0	--
1983	49.7	24.7	1.7	--	20.8	2.2	25.0	--
1984	47.9	21.8	0.7	--	19.0	2.1	26.1	--
1985	r46.9	r23.3	1.5	--	r20.1	1.7	23.6	--
1986	59.9	35.1	2.1	--	30.1	2.9	24.8	--
TOPWEIGHT FABRICS*								
1980	r1149.0	r730.0	r31.5	42.5	301.0	r355.0	415.1	3.9
1981	r1063.7	r644.7	21.2	71.0	236.5	r316.0	414.4	4.6
1982	r994.3	r540.4	15.7	r42.7	163.5	r318.5	450.2	3.7
1983	1143.2	692.2	24.5	40.7	214.5	412.5	446.4	4.6
1984	r1032.5	547.6	18.4	45.7	178.0	305.5	r479.7	5.2
1985	r967.3	496.2	16.5	35.7	173.0	271.0	r467.0	4.1
1986	1167.7	557.1	7.5	52.1	158.5	339.0	607.0	3.6
BOTTOMWEIGHT FABRICS*								
1980	r2003.0	r1069.0	20.5	22.5	631.0	r395.0	839.3	94.7
1981	r1905.3	r1002.8	12.3	32.0	592.5	r366.0	790.2	112.3
1982	r1771.5	r926.7	9.8	21.9	523.5	r371.5	749.9	94.9
1983	r2048.5	r1105.4	9.5	29.8	603.6	462.5	827.9	115.2
1984	r1959.3	r1037.8	4.5	35.7	r605.1	392.5	r792.8	128.7
1985	r1955.5	990.8	4.5	27.8	587.5	371.0	r857.5	107.2
1986	2176.3	1075.2	2.5	40.6	540.1	492.0	979.1	122.0
OTHER APPAREL & ACCESSORIES (MW)*								
1980	72.9	5.7	--	0.7	2.0	3.0	67.2	c
1981	74.8	13.5	--	7.0	2.5	4.0	61.3	c
1982	50.1	10.0	--	3.0	3.0	4.0	40.1	c
1983	42.8	7.0	--	--	3.0	4.0	35.8	c
1984	r47.6	7.0	--	--	3.0	4.0	r40.6	c
1985	r45.6	r7.2	--	r0.2	3.0	4.0	r38.4	c
1986	46.7	8.6	--	0.5	3.4	4.7	38.1	c

Most of the above data are taken from the Textile Economics Bureau's publication ***Man-Made Fiber Producers' Handbook.***

NOTE: Data on Glass Fiber is no longer available due to company disclosure. The series, including Glass Fiber was last published in the September 1985 issue.

For all lettered and general footnotes to this table and the Home Furnishings, Floor Covering and Industrial & Other Consumer-Type Products tables, please see page 217.

TABLE 7:
FIBER CONSUMED IN U.S. HOME FURNISHINGS PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE EXCLUDING FLOOR COVERINGS
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MAN-MADE FIBERS					COTTON	WOOL
		TOTAL	CELLULOSIC		NONCELLULOSIC			
			YARN	STAPLE	YARN	STAPLE		
TOTAL HOME FURNIGHINGS								
1980	1717.5	915.1	47.3	122.2	174.9	570.7	787.0	15.4
1981	1672.0	922.3	35.7	119.2	186.2	581.2	732.5	17.2
1982	1424.9	744.0	26.0	77.7	170.3	470.0	665.4	15.5
1983	1730.3	913.4	27.7	106.3	240.9	538.5	797.8	19.1
1984	r1836.7	952.4	27.5	106.1	244.6	574.2	r863.0	21.3
1985	r1864.3	r953.9	18.5	r107.1	r280.9	r547.4	r892.7	17.7
1986	1918.6	889.3	16.8	113.9	234.2	524.4	1011.4	17.9
45 BEDSREADS & QUILTS*								
1980	128.2	73.0	5.4	2.1	15.5	50.0	55.2	--
1981	132.3	82.6	4.9	3.1	15.7	58.9	49.7	--
1982	123.3	76.7	3.8	2.4	14.0	56.5	46.6	--
1983	140.8	91.4	6.0	6.2	16.0	63.2	49.4	--
1984	r134.1	81.2	4.0	6.0	15.2	56.0	r52.9	--
1985	r134.4	r77.2	c	6.0	r17.2	54.0	57.2	--
1986	141.9	80.0	0.2	6.3	19.1	54.6	61.9	--
46 BLANKETS & BLANKETING*								
1980	109.1	97.2	--	2.0	3.5	91.7	7.9	4.0
1981	90.5	78.9	--	0.9	3.5	74.5	7.1	4.5
1982	79.2	68.0	--	c	2.5	65.5	7.2	4.0
1983	70.3	57.2	--	c	1.0	56.2	8.6	4.5
1984	66.8	50.9	--	0.2	1.0	49.7	10.9	5.0
1985	r73.5	r54.6	--	0.2	--	r54.4	r14.8	4.1
1986	72.8	51.1	--	0.2	--	50.9	17.4	4.3
47 SHEETS & OTHER BEDDING*								
1980	507.9	263.8	2.3	9.4	25.9	226.2	244.1	--
1981	512.1	299.5	2.6	13.8	34.0	249.1	212.6	--
1982	424.5	243.4	3.9	10.6	43.2	185.7	181.1	--
1983	511.7	299.3	0.5	11.6	79.6	207.6	212.4	--
1984	r516.3	300.0	0.5	15.0	75.7	208.8	r216.3	--
1985	r494.3	r269.3	1.5	12.5	r77.7	r177.6	r225.0	--
1986	502.3	254.8	1.9	12.7	70.1	170.1	247.5	--
48 TOWELS & TOWELING*								
1980	328.5	35.3	--	0.9	c	34.4	293.2	--
1981	326.7	32.6	--	0.9	0.3	31.4	294.1	--
1982	306.6	28.7	--	0.6	0.8	27.3	277.9	--
1983	379.8	36.0	--	0.3	1.7	34.0	343.8	--
1984	r405.9	30.3	--	0.7	0.6	29.0	r375.6	--
1985	r391.5	22.3	--	0.9	0.2	21.2	r369.2	--
1986	461.7	31.9	--	0.5	0.2	31.2	429.8	--
56b NARROW FABRICS*								
1980	5.3	1.4	0.2	0.1	0.6	0.5	3.9	--
1981	6.1	2.3	--	--	0.9	1.4	3.8	--
1982	5.0	1.8	--	--	0.4	1.4	3.2	--
1983	5.8	2.1	--	--	0.3	1.8	3.7	--
1984	4.3	0.5	--	--	c	0.5	3.8	--
1985	4.8	1.2	--	--	1.2	--	3.6	--
1986	4.1	0.3	--	--	0.2	0.1	3.8	--

Continued From Page 209

LIMITATIONS OF THE SURVEY RESULTS

The statistical results of this end use survey should be considered as approximations. These data are best used as a means of comparison to measure the long-term trends among the fibers.

Please note that the data are given in millions of pounds and include one decimal place to show hundred thousand pounds. This device is employed not to show great accuracy, but rather to take into account some small quantities of fibers in such end uses as Apparel Lace and still allow the compilation to add arithmetically.

TABLE 7:
FIBER CONSUMED IN U.S. HOME FURNISHINGS PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE EXCLUDING FLOOR COVERINGS (CONTINUED)
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	TOTAL	MAN-MADE FIBERS				COTTON	WOOL
			CELLULOSIC		NONCELLULOSIC			
			YARN	STAPLE	YARN	STAPLE		
51 CURTAINS*								
1980	89.5	80.1	4.0	7.5	28.4	40.2	9.4	--
1981	82.2	73.4	5.6	6.8	25.2	35.8	8.8	--
1982	61.3	53.3	1.3	5.3	18.3	28.4	8.0	--
1983	77.4	68.5	1.2	10.4	25.5	31.5	8.8	--
1984	r101.0	91.2	1.0	9.8	33.1	47.3	r9.8	--
1985	r99.3	r87.5	2.0	10.2	r31.2	44.1	r11.8	--
1986	92.9	77.0	3.0	7.0	21.0	46.0	15.9	--
53 DRAPERY & UPHOLSTERY*								
1980	484.3	325.2	34.1	94.4	91.1	105.6	147.7	11.4
1981	464.3	319.0	21.4	91.4	99.8	106.4	132.6	12.7
1982	373.4	242.1	15.9	57.7	76.3	92.2	119.8	11.5
1983	471.9	311.5	17.7	76.9	100.5	116.4	145.8	14.6
1984	r507.7	323.8	19.3	73.4	83.3	147.8	r167.6	16.3
1985	r532.8	r333.8	12.8	r70.9	104.6	r145.5	r185.4	13.6
1986	555.4	331.8	11.7	86.2	105.5	128.4	210.0	13.6
OTHER HOME FURNISHINGS*								
1980	64.7	39.1	1.3	5.8	9.9	22.1	25.6	--
1981	57.8	34.0	1.2	2.3	6.8	23.7	23.8	--
1982	51.6	30.0	1.1	1.1	14.8	13.0	21.6	--
1983	72.6	47.3	2.3	0.9	16.3	27.8	25.3	--
1984	r100.6	74.5	2.7	1.0	35.7	35.1	r26.1	--
1985	r133.7	108.0	2.2	6.4	48.8	50.6	r25.7	--
1986	87.3	62.2	--	1.0	18.1	43.1	25.1	--

TABLE 8:
FIBER CONSUMED IN U.S. FLOOR COVERINGS PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	TOTAL	MAN-MADE FIBERS				COTTON	WOOL
			CELLULOSIC		NONCELLULOSIC			
			YARN	STAPLE	YARN	STAPLE		
50 TOTAL CARPETS & RUGS*								
1980	1926.0	1900.7	--	0.2	1001.8	898.7	14.9	10.4
1981	1837.9	1814.4	--	0.7	918.4	895.3	12.0	11.5
1982	1711.0	1690.1	--	0.7	834.2	855.2	10.4	10.5
1983	2206.8	2179.9	--	0.6	1064.6	1114.7	14.0	12.9
1984	2287.1	2258.4	--	0.7	1162.1	1095.6	14.3	14.4
1985	r2568.1	r2538.0	--	1.3	r1398.5	1138.2	18.2	11.9
1986	2802.9	2767.0	--	1.5	1535.2	1230.3	20.4	15.5
50a FACE YARNS*								
1980	1686.1	1672.7	--	0.2	804.0	868.5	3.0	10.4
1981	1604.0	1587.3	--	0.7	723.1	863.5	5.2	11.5
1982	1486.2	1470.9	--	0.7	649.5	820.7	4.8	10.5
1983	1960.9	1941.1	--	0.6	865.8	1074.7	6.9	12.9
1984	1976.6	1954.5	--	0.7	934.3	1019.5	7.7	14.4
1985	r2135.8	r2112.2	--	1.3	r1043.9	r1067.0	11.7	11.9
1986	2307.5	2277.9	--	1.5	1131.1	1145.3	14.1	15.5
50b BACKING*								
1980	239.9	228.0	--	--	197.8	30.2	11.9	--
1981	233.9	227.1	--	--	195.3	31.8	6.8	--
1982	224.8	219.2	--	--	184.7	34.5	5.6	--
1983	245.9	238.8	--	--	198.8	40.0	7.1	--
1984	310.5	303.9	--	--	227.8	76.1	6.6	--
1985	432.3	425.8	--	--	354.6	71.2	6.5	--
1986	495.4	489.1	--	--	404.1	85.0	6.3	--

FOOTNOTES FOR BOTH TABLE 7 & TABLE 8:
Most of the above data are taken from the Textile Economics Bureau's publication ***Man-Made Fiber Producers' Handbook.***

NOTE: Data on Glass Fiber is no longer available due to company disclosure. The series, including Glass Fiber was last published in the September 1985 issue.

For all lettered and general footnotes to this table and the Apparel and Industrial & Other Consumer-Type Products tables, please see page 217.

TABLE 9:
FIBER CONSUMED IN U.S. INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS
INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MAN-MADE FIBERS					COTTON	WOOL
		TOTAL	CELLULOSIC		NONCELLULOSIC			
			YARN	STAPLE	YARN	STAPLE		
TOTAL INDUSTRIAL & OTHER CONSUMER								
1980	2249.3	1826.2	41.8	209.2	942.9	632.3	412.4	10.7
1981	2380.9	1965.2	41.4	188.8	1058.3	676.7	403.9	11.8
1982	2140.8	1753.4	30.1	165.2	919.6	638.5	377.1	10.3
1983	2434.2	2038.2	22.5	173.3	987.1	855.3	382.0	14.0
1984	r2505.3	2108.2	27.9	159.4	998.2	922.7	r376.1	21.0
1985	r2454.5	r2080.2	30.5	r161.9	r968.6	r919.1	r361.2	13.1
1986	2613.8	2237.6	28.1	175.9	1106.9	926.7	361.5	14.7
56c NARROW FABRICS*								
1980	86.7	71.9	1.0	--	68.1	2.8	14.8	--
1981	91.5	77.8	3.4	--	74.0	0.4	13.7	--
1982	87.4	74.9	3.1	--	70.5	1.3	12.5	--
1983	100.8	88.8	1.0	--	86.6	1.2	12.0	--
1984	110.9	98.1	0.9	--	96.9	0.3	12.8	--
1985	r105.5	r93.0	--	--	r93.0	c	12.5	--
1986	118.4	105.3	--	--	105.3	--	13.1	--
61 MEDICAL, SURGICAL & SANITARY*								
1980	343.4	253.2	c	141.7	31.6	79.9	90.2	--
1981	336.2	248.5	--	122.1	38.1	88.3	87.7	--
1982	324.8	234.6	--	106.2	39.9	88.5	90.2	--
1983	339.3	250.3	--	114.3	46.5	89.5	89.0	--
1984	328.6	241.6	--	116.1	54.0	71.5	87.0	--
1985	299.1	219.3	--	r105.9	58.7	54.7	79.8	--
1986	351.1	269.8	--	123.4	94.4	52.0	81.3	--
63-64 TRANSPORATION FABRIC*								
1980	48.5	37.8	--	1.1	16.5	20.2	10.7	--
1981	62.6	52.8	--	0.5	22.2	30.1	9.8	--
1982	47.6	38.7	--	1.4	22.8	14.5	8.9	--
1983	63.5	53.5	--	0.6	32.3	20.6	10.0	--
1984	r73.1	61.4	--	1.1	36.5	23.8	r11.7	--
1985	r85.4	r74.2	--	0.8	r53.9	19.5	r11.2	--
1986	87.6	72.4	--	1.0	50.5	20.9	15.2	--
65 TIRES*								
1980	396.4	391.0	20.5	--	370.5	--	5.4	--
1981	405.1	400.4	18.9	--	381.5	--	4.7	--
1982	335.5	331.6	12.5	--	319.1	--	3.9	--
1983	335.8	331.8	11.0	--	320.8	--	4.0	--
1984	368.5	364.8	14.0	--	350.8	--	3.7	--
1985	314.7	311.4	9.8	--	301.6	--	3.3	--
1986	300.0	297.6	9.0	--	288.6	--	2.4	--
66 HOSE*								
1980	43.2	38.7	11.9	--	18.3	8.5	4.5	--
1981	47.3	42.9	11.5	--	21.7	9.7	4.4	--
1982	28.8	26.3	7.0	--	15.5	3.8	2.5	--
1983	27.5	24.8	6.5	--	15.7	2.6	2.7	--
1984	r33.0	30.1	8.0	--	19.5	2.6	r2.9	--
1985	r29.3	r27.3	11.8	--	r15.1	0.4	r2.0	--
1986	29.0	27.6	11.0	--	15.9	0.7	1.4	--
67 BELTING*								
1980	63.4	51.5	2.0	0.7	34.5	14.3	11.9	--
1981	66.6	54.1	2.4	1.0	37.7	13.0	12.5	--
1982	48.3	37.8	1.8	0.5	26.7	8.8	10.5	--
1983	53.6	44.5	1.9	--	28.0	14.6	9.1	--
1984	r60.1	50.7	3.0	--	31.4	16.3	r9.4	--
1985	r43.5	r32.7	2.5	--	r24.3	5.9	r10.8	--
1986	41.9	31.1	3.1	--	23.3	4.7	10.8	--
69,77 ELECTRICAL & REINFORCED PLASTICS*								
1980	33.6	8.6	--	--	8.6	c	25.0	--
1981	31.1	6.1	c	--	6.0	0.1	25.0	--
1982	31.6	6.6	--	--	6.6	c	25.0	--
1983	29.9	4.9	--	--	4.9	c	25.0	--
1984	30.2	5.2	0.2	--	5.0	c	25.0	--
1985	31.3	6.3	0.1	--	6.2	--	25.0	--
1986	28.9	3.9	c	--	3.9	0.2	25.0	--
70 FELTS*								
1980	28.1	17.0	--	3.4	4.8	8.8	1.4	9.7
1981	27.0	14.8	--	4.0	5.2	5.6	1.4	10.8
1982	20.2	9.6	--	--	4.6	5.0	1.3	9.3
1983	27.0	12.7	--	3.5	3.9	5.3	1.3	13.0
1984	34.7	13.5	--	3.5	4.0	6.0	1.2	20.0
1985	23.7	10.6	--	2.0	3.9	4.7	1.0	12.1
1986	26.3	11.7	--	2.2	4.3	5.2	1.0	13.6

For all lettered and general footnotes to this table and the Apparel, Home Furnishings and Floor Covering tables, please see page 217.

TABLE 9:
FIBER CONSUMED IN U.S. INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE (CONTINUED)

MILLION POUNDS

END USE & YEAR	TOTAL FIBER	TOTAL	MAN-MADE FIBERS				COTTON	WOOL
			CELLULOSIC		NONCELLULOSIC			
			YARN	STAPLE	YARN	STAPLE		
71 FILTRATION*								
1980	43.5	37.9	--	4.0	4.1	29.8	5.6	--
1981	34.6	29.0	--	4.1	5.1	19.8	5.6	--
1982	31.9	26.9	--	3.7	5.6	17.6	5.0	--
1983	34.2	29.0	--	1.3	3.8	23.9	5.2	--
1984	34.3	29.5	--	3.3	4.8	21.4	4.8	--
1985	37.3	32.8	--	3.2	5.2	24.4	4.5	--
1986	37.0	32.7	--	4.6	4.1	24.0	4.3	--
72 SEWING THREAD*								
1980	111.9	64.7	c	5.6	46.2	12.9	47.2	--
1981	135.2	73.7	c	8.0	49.5	16.2	61.5	--
1982	114.2	60.6	c	7.1	40.0	13.5	53.6	--
1983	133.8	76.3	c	7.6	50.0	18.7	57.5	--
1984	123.6	72.2	c	5.2	51.1	15.9	51.4	--
1985	r129.7	r84.1	0.4	6.7	r60.4	17.0	45.6	--
1986	130.5	84.1	0.4	3.9	63.4	16.8	46.4	--
73 ROPE, CORDAGE, FISHLINE, ETC*								
1980	162.7	135.6	1.8	0.9	130.6	2.3	27.1	--
1981	172.4	148.2	1.8	0.7	137.4	8.3	24.2	--
1982	162.5	139.3	1.0	0.8	126.6	10.9	23.2	--
1983	170.0	152.2	0.8	0.6	138.3	12.5	17.8	--
1984	186.5	170.9	1.0	0.3	157.1	12.5	15.6	--
1985	r184.3	r168.9	0.6	r0.4	157.3	r10.6	r15.4	--
1986	188.3	175.1	0.4	1.7	155.7	17.3	13.2	--
74 BAGS & BAGGING*								
1980	67.2	60.4	--	--	60.4	--	6.8	--
1981	69.5	62.9	--	--	61.6	1.3	6.6	--
1982	68.8	62.6	--	--	62.6	--	6.2	--
1983	75.3	69.5	--	--	67.5	2.0	5.8	--
1984	46.6	41.3	--	--	40.5	0.8	5.3	--
1985	60.2	55.1	--	--	54.5	0.6	5.1	--
1986	58.0	53.0	--	--	52.2	0.8	5.0	--
75 COATED & PROTECTIVE FABRICS*								
1980	172.7	121.2	0.5	10.5	30.3	79.9	51.5	--
1981	169.0	120.7	--	10.4	29.1	81.2	48.3	--
1982	161.7	117.4	--	7.1	39.3	71.0	44.3	--
1983	228.1	177.9	--	10.6	46.2	121.1	50.2	--
1984	251.2	194.2	--	10.5	55.0	128.7	57.0	--
1985	r195.2	r135.6	--	10.2	r43.9	r81.5	r59.6	--
1986	195.1	136.2	--	11.6	47.0	77.6	58.9	--
76 PAPER & TAPE REINFORCING*								
1980	8.0	3.5	1.3	c	2.0	0.2	4.5	--
1981	5.8	2.0	c	0.9	0.6	0.5	3.8	--
1982	7.6	4.6	c	0.9	1.4	2.3	3.0	--
1983	5.7	2.3	c	0.4	0.6	1.3	3.4	--
1984	11.1	7.4	0.3	0.4	2.7	4.0	3.7	--
1985	6.8	3.9	1.8	0.4	1.7	--	2.9	--
1986	5.3	3.4	0.9	0.1	2.4	c	1.9	--
79a FIBERFILL, STUFFING & FLOCK*								
1980	254.9	254.9	--	6.3	--	248.6	--	--
1981	293.5	293.5	--	10.7	--	282.8	--	--
1982	277.2	277.2	--	7.2	--	270.0	--	--
1983	331.7	331.7	--	7.4	--	324.3	--	--
1984	321.4	321.4	--	4.1	--	317.3	--	--
1985	r354.9	r354.9	--	6.5	--	r348.4	--	--
1986	368.7	368.7	--	3.1	--	365.6	--	--
79b UNALLOCATED NONWOVENS*								
1980	95.4	95.4	--	14.1	--	81.3	--	--
1981	83.0	83.0	--	12.0	--	71.0	--	--
1982	90.4	90.4	--	9.2	--	81.2	--	--
1983	136.6	136.6	--	6.9	--	129.7	--	--
1984	189.2	189.2	--	3.0	--	186.2	--	--
1985	r224.4	r224.4	--	r12.9	--	r211.5	--	--
1986	257.5	257.5	--	14.9	--	242.6	--	--
MISCELLANEOUS INDUSTRIAL & CONSUMER-TYPE PRODUCTS*								
1980	289.7	182.9	2.8	20.9	116.4	42.8	105.8	1.0
1981	350.5	254.8	3.4	14.4	188.6	48.4	94.7	1.0
1982	302.3	214.3	4.7	21.1	138.4	50.1	87.0	1.0
1983	341.4	251.4	1.3	20.1	142.0	88.0	89.0	1.0
1984	302.3	216.7	0.5	11.9	88.9	115.4	84.6	1.0
1985	328.8	245.3	3.6	12.9	88.9	139.9	82.5	1.0
1986	389.6	306.9	3.3	9.4	195.9	98.3	81.6	1.1

Most of the above data are taken from the Textile Economics Bureau's publication ***Man-Made Fiber Producers' Handbook.*** The series, including Glass Fiber was last published in the September 1985 issue.

NOTE: Data on Glass Fiber is no longer available due to company disclosure.

TABLE 10:
EXPORTS OF SEMIMANUFACTURED PRODUCTS
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	TOTAL	MAN-MADE FIBERS[b]				COTTON	WOOL
			CELLULOSIC		NONCELLULOSIC			
			YARN	STAPLE	YARN	STAPLE		
TOTAL EXPORTS OF DOMESTIC PRODUCTS								
1980	617.5	351.8	20.0	10.8	141.0	180.0	259.3	6.4
1981	489.9	318.6	17.2	10.3	121.0	170.1	165.8	5.5
1982	338.7	217.5	11.7	6.9	82.5	116.4	114.9	6.3
1983	284.2	185.9	11.0	6.0	70.0	98.9	93.0	5.3
1984	280.2	190.9	9.4	6.1	73.0	102.4	84.8	4.5
1985	328.4	209.7	9.6	6.6	75.8	117.7	108.0	10.7
1986	383.7	232.1	11.0	7.6	88.0	125.5	143.0	8.6
80 YARN, THREAD, ETC*								
1980	105.1	53.3	e	3.3	e	50.0	47.0	4.8
1981	103.9	62.2	e	3.9	e	58.3	38.1	3.6
1982	77.7	42.7	e	2.5	e	40.2	30.1	4.9
1983	72.5	37.3	e	2.0	e	35.3	31.2	4.0
1984	61.2	38.3	e	2.6	e	35.7	20.0	2.9
1985	86.0	51.1	e	2.7	e	48.4	25.8	9.1
1986	70.8	47.9	e	2.5	e	45.4	16.6	6.3
81 WOVEN & KNIT FABRIC*								
1980	512.4	298.5	20.0	7.5	141.0	130.0	212.3	1.6
1981	386.0	256.4	17.2	6.4	121.0	111.8	127.7	1.9
1982	261.0	174.8	11.7	4.4	82.5	76.2	84.8	1.4
1983	211.7	148.6	11.0	4.0	70.0	63.6	61.8	1.3
1984	219.0	152.6	9.4	3.5	73.0	66.7	64.8	1.6
1985	242.4	158.6	9.6	3.9	75.8	69.3	82.2	1.6
1986	312.9	184.2	11.0	5.1	88.0	80.1	126.4	2.3

SOURCE: U.S. Department of Agriculture, *Cotton & Wool Outlook Situation.*

This is a non-add section since the volumes are included in Tables 2 and 6 through 9.

For all lettered and general footnotes to this table, see page 217.

NOTES FOR EXPORT ITEMS ABOVE

For all lettered and general footnotes to this table, see page 217.

These exports do not duplicate the end use poundages that are reported in Items 1 through 79. Apparel items are not tabulated here because they already have been counted as the fabric was cut, i.e., they are counted only once regardless of the subsequent place of sale or consumer use.

Similarly, fabrics for blankets, sheets, upholstery & draperies, carpets, etc., are excluded since they are measured at the mill level as an end use.

The exports of man-made fiber filament yarn+monofilaments, staple, tow, etc., are not tabulated in this section because these products are not a factor in U.S. mill consumption.

On the other hand, the two export items are recorded because, while they were processed or fabricated in U.S. mills, they were exported before reaching the point at which end use is measured.

80. YARN, THREAD, ETC:
Consists of sliver, tops & roving; plied, thrown and spun yarn; sewing thread and handwork yarns; cotton twine and cordage; and advanced wool.

81. WOVEN & KNIT FABRIC:
Consists of broad & narrow woven fabrics and knit cloth, except that cotton also includes table damask and tire cord & fabric.

GENERAL NOTES FOR END USE TABLES
ON PAGES 210-216

Units are in million pounds.

- -- Little, or none, of the fiber is used.
- * When an asterisk appears, there is a footnote at the end of the table.
- • A significant revision in the 1980-1986 data series compared with the corresponding data shown in the September 1986 ***Organon*** issue. Earlier years' data on the new basis are not available.
- a. This letter in the title of each table refers the reader to these notes.
- b. Man-made fiber end use in these tables is divided between Cellulosic (rayon+acetate fibers) and Noncellulosic (nylon, polyester, acrylic & olefin fiber). Yarn includes monofilaments and olefin "yarn" also includes film fiber and spunbonded polypropylene. Staple includes tow & fiberfill; see Item 79a, Fiberfill, Stuffing & Flock and its footnote on page 219. Certain waste quantities, which are tabulated with staple, are included; see text on page 206.

  The noncellulosic fibers included in this survey, for one or more years, are the acrylic, aramid to 1982, modacrylic, nylon, olefin (polyethylene & polypropylene), polyester and vinyon fibers.
- c. Less than 50,000 pounds, i.e., nominal.
- d. The staple data are tabulated in the yarn column.
- e. The yarn data are tabulated in the staple column.
- r. This data shows a significant revision compared with the September 1986 ***Organon*** data.

As described in the footnotes to Items 54a and 54b, apparel linings, pockets and such are tabulated in Items 54a and 54b and not with the applicable garments.

In the Apparel table, the sex and age classifications used are those of the U.S. Census Bureau. Thus **M** means Men's plus Boys' and **W** means all other persons, i.e., Women's, Misses', Juniors', Girls', Children's & Infants'.

NOTES FOR APPAREL ITEMS
PAGES 210-211

For all lettered and general footnotes to this table, see notes above.

40. SHEER HOSIERY:
Includes pantyhose, stockings, body stockings, leotards & tights, sheer knee-highs & anklets and support hose.

19,41. ANKLETS & SOCKS:
Include footsocks, anklets, half-hose, over-the-calf hosiery and nonsheer knee-highs for all ages and both sexes. Also includes infants' and children's waist-highs.

8,29. SWEATERS (MW):
Knitted sweater shirts, pullover, coat & cardigan types, both full-fashioned and cut and sewn. Also note Item 57.

57. CRAFT & HANDWORK YARNS:
All yarns for handwork, i.e., knitting, embroidery, crocheting, needlepoint, crewl and yarn kits for all uses. Does not include sewing thread (Item 72). Olefin yarn for macramé is in Miscellaneous Industrial.

16-18. UNDERWEAR & NIGHTWEAR (M):
Undershirts, shorts & briefs, pajamas, nightshirts, sleepcoats, thermal underwear, etc.

35-39. UNDERWEAR, NIGHTWEAR, BRAS AND FOUNDATIONS:
Underwear and nightwear component includes full and halfslips, panties, petticoats, pettipants, camisoles, vests, briefs and thermal underwear as well as nightgowns, pajamas, sleep coats, peignoirs, robes, negligees and bedjackets. Also includes bodywear and all children's and infants' underwear & nightwear. **Excludes** the trim, elastic webbing, apparel lace, braid or narrow fabric used in these products.

The bras and foundations include corsets, girdles, combinations and one-piece garments, garter belts, hose supporters, two-way stretch and surgical & maternity foundation garments.

10,31. ROBES & LOUNGEWEAR (MW):
Men's & boys' beach & bathrobes, dressing gowns and smoking jackets, and women's beach & bathrobes and house-breakfast & brunch coats and dressing gowns.

54a. HIGH PILE FABRICS:
Include all applications. End uses such as coatings, collar trims, linings, backings and paint rollers are included. Napped or brushed fabrics such as fleeces, velvets or corduroys are excluded.

54b. FABRICS FOR LINING:
All man-made fiber types except high pile fabrics (Item 54a), lining-type fabrics sold as retail piece goods and the lining components of shoes & slippers and luggage and handbags (Miscellaneous Other Consumer-Type). The apparel lining component of this series includes main linings, interlinings, zip-in linings (except pile), pocketings and bandings and waistbands as well as the acetate and nylon tricot for laminating. Cotton drapery linings are not included here but are in Item 52. Also not included are interlinings of haircloth, urethane and non-woven fabrics.

43. APPAREL LACE:
Nets and veilings.

56a. NARROW FABRICS: ELASTIC AND NONELASTIC TYPES.
The "narrow woven goods" made by slicing broad woven fabrics are not included. **NARROW FABRIC** quantities for home furnishings and industrial uses are shown in those sections.

RETAIL PIECE GOODS:
Are included in Topweight and Bottomweight Fabrics.

TOPWEIGHT FABRICS:
All shirts, blouses, lightweight dress and lightweight fashion fabrics. Fabrics generally weigh 5.0 ounces or less per square yard. Retail piece goods are included.

BOTTOMWEIGHT FABRICS:
Pants, jeans, sportswear, tailored clothing, coats and jackets, career apparel and heavier weight fashion fabrics. Fabrics generally weigh more than 5.0 ounces per square yard. Retail piece goods are included.

OTHER APPAREL:
Men's & women's work gloves and handkerchiefs. Man-made fiber used for knitted accessories such as scarves, mufflers, gloves, mittens, caps, etc., is in Items 8 & 29.

NOTES FOR HOME FURNISHING ITEMS

PAGES 212-213

For all lettered and general footnotes to this table, see page 217.

HOME FURNISHINGS:

Data cover the use of each item not only in homes, but also in offices, hotels, institutions, etc. For certain transportation uses, note Items 50a, 63 & 64.

None of the quantities tabulated include any cotton stuffing or filling materials in items such as furniture, pillows, mattresses, comforters & quilts, sleeping bags, seat padding, etc. For the man-made fibers, however, stuffing & fiberfill is tabulated in the Industrial section. Note text page 206 regarding the inclusion of certain man-made fiber waste quantities here. Certain felt quantities are in Item 70.

45. BEDSPREADS:
Tailored & throw spreads, both tufted & woven, as well as the backing. **QUILTS:** Comforters and their outer shell, quilted pads are in Item 47.

46. BLANKETS & BLANKETING:
Woven, knitted, needle-punched and flocked full-size and crib blankets and electric blanket shells, as well as the woven acetate or nylon filament yarn bindings thereof. Sizable quantities of rayon, acrylic, nylon & wool waste are included here.

47. SHEETS:
Pillowcases. **OTHER BEDDING:** Outside covers of quilted pads, mattress pads, mattresses & innersprings, civilian cots and sleeping bags. Mattress felts are in Item 70. The man-made staple quantities here are mainly polyester for sheets and rayon & polyester for bed ticking. The man-made filament is chiefly polyester for bed ticking.

48. TOWELS & TOWELING:
Woven hand, bath, dish towels, etc. Nonwoven towels, such as "Handi-wipes" and industrial wiping cloths, are in Item 61. The large cotton waste quantity used in these products is not included.

56b. NARROW FABRICS:
Only home furnishings applications. See the Apparel and Industrial sections for Narrow Fabrics in those applications.

51. CURTAINS:
Lace and other types (principally woven) i.e., cafe, tiered & cottage, ruffled, shortie drapes and tailored. Shower curtains are in Other Home Furnishings.

52. DRAPERY & UPHOLSTERY:
Furniture slipcovers and vinyl-coated cotton fabrics for upholstery. The olefin & saran webbing for outdoor furniture is included under Narrow Woven Industrial (Item 56c). Also includes the backing & headers of drapery fabrics. The cotton data include cotton drapery linings.

OTHER HOME FURNISHINGS:
Woven & lace napery, such as tablecloths & napkins, doilies, etc., as well as the cotton in window shades. For the man-made fibers, it includes insect screening & netting. Wall covering fabric is in Miscellaneous Industrial.

NOTES FOR FLOOR COVERING ITEMS

PAGE 213

For all lettered and general footnotes to this table, see page 217.

50. CARPETS & RUGS FACE FIBER (TOTAL):
Sum of 50a & 50b.

50a. FACE YARNS:
Tufted, woven, knitted and needle-punched types. Tufted includes broadloom & roll goods, transportation carpeting, scatter rugs, bath mats and "grass." Woven includes carpets such as Axminster, Velvet, Wilton, etc. Knit goods are mainly scatter rugs. Needle-punched are the indoor-outdoor carpets. Item 50a does not include braided, hooked or woven twisted paper carpets.

50b. CARPET BACKING FIBERS:
The Cellulosic Yarn is industrial rayon used for woven carpet chain warps. The Other Yarn is olefin (monofil+film fiber+spunbonded) and small quantities of nylon & polyester filament yarn. The Other Staple is olefin only. The substantial quantities of jute used as woven primary & secondary carpet backing, as well as the jute yarn used in the warp of woven carpets, are not tabulated in Item 50b. Nor does it include the quantities of wool, hair and jute used in carpet and rug pads and cushions.

NOTES FOR INDUSTRIAL & OTHER CONSUMER-TYPE ITEMS

PAGES 214 - 215

For all lettered and general footnotes to this table, see page 217.

56c. NARROW FABRICS:
Woven labels, industrial webbing, shoelaces, tapes (venetian blinds & industrial), transportation seat belts, auto windlace, channeling & trim, and outdoor furniture webs. These figures exclude transmission & conveyor belting (in Item 67); friction tape and the braided narrow fabric used in electrical applications (in Item 69); and gummed cotton tape (in Item 76).

61. MEDICAL, SURGICAL & SANITARY:
Bandages, gauzes, adhesive tapes & plasters, sanitary napkins & tampons, cotton diapers, rayon disposable diapers, surgical gowns and packs. Medical sutures are tabulated in Item 72. Surgical hosiery is in Items 19 & 40. Not included here is cotton waste & linters nor any nontextiles used for filling materials.

63 & 64. TRANSPORTATION FABRIC:
Auto seat upholstery & slipcovers, sidewall, headlining and sheeting. The cotton quantities include the knit and woven fabric used as the backing for vinyl sheeting. The item includes convertible auto tops & replacements thereof, as well as upholstery used in other kinds of transportation, such as airplanes, railroad & subway cars, buses, etc. it does not include seat padding, transportation rugs (in Item 50), window channeling (in Item 56c), flocking, tassels, trim, etc. Starting in 1980, the man-made fiber used for substrates for automotive fabric is included in Item 75.

Notes for Industrial & Other Consumer-Type Items (Continued)

65. TIRES:
All types, i.e., automobile, truck, tractor, off-road, bicycle, etc. The data include tire cord & tire cord fabric, chafer and other tire components, i.e., flipper fabric, breaker strips, bead wraps, etc.

The data include imports of tire yarn, cord & fabric and also cover any quantities subsequently exported in cord or fabric form.

The consumption of steel tire cord for the years 1980-1986 inclusive is estimated as follows: 142.0, 154.3, 159.8, 219.2, 300.5, 317.6 & 327.0. However, these quantities are **not included** in Item 65.

66. HOSE:
Fire, chemical, fuel, etc. Does not include braided vacuum cleaner hose.

67. BELTING:
Includes flat conveyor & transmission belts (both rubberized and nonrubberized) and V-belts.

69 & 77. ELECTRICAL APPLICATIONS & REINFORCED PLASTICS:
The cotton quantities are estimated.

Electrical Applications: Electric wire insulation & covering of all kinds plus friction tape and cable wrap, stuffing & identification. The total fiber consumed does not reflect the increased use of plastic and other nonfibrous coatings, of course.

Reinforced Plastics: High- and low-pressure laminates used in the manufacture of construction materials (corrugated & flat sheet, plumbing accessories, etc.), process equipment (tanks & containers, pipes, ducts, etc.), transportation uses (aircraft, autos, trucks, etc.) and marine, missiles, molded electrical parts, housing, seating, trays, etc. Flexible laminates of cotton are tabulated by end use, e.g., vinyl-supported upholstery fabric in Item 63, etc.

70. FELTS:
Wet & dry papermakers' felts, mattress felts and cushioning & wicking felts. Apparel felts (e.g., for shirts) are classified by apparel products. Patio and similar "felts" are in Item 50a. Laundry press pads and flatwork ironer pads are in Miscellaneous Industrial. The wool quantity includes some felts used in filtration (recorded here and not in Item 71), but excludes the substantial amounts used in pressed felts.

71. FILTRATION:
Woven and nonwoven filters for wet & dry filtration, including tea bags. The small wool quantity used in the copper refining industry is included in Item 70.

The fiber used in cigarette filtration is **not included** in this end use or in the Industrial Uses totals.

72. SEWING THREAD:
Home sewing and industrial & weight goods, as well as medical sutures.

73. ROPE (Braided & twisted), **CORDAGE** (under 3/16"), **FISHLINE, ETC:**
Includes hawsers, baler or harvest twine, clothesline, tying twine, etc., as well as fishnets, seines & netting twine.

74. BAGS & BAGGING:
Man-made Other Yarn is nylon mailbags plus olefin leno mesh & close-woven bags, including sandbags; also includes olefin bagging for wool bales. Carpet backing bale wrap is in Other Industrial.

75. COATED & PROTECTIVE FABRICS:
For the man-made fibers, tents & tarpaulins, as well as the substrates for vinyl, rubber or urethane coating, lamination or impregnation. Examples of specific end uses covered include parachutes, deceleration chutes & tow targets, awnings, beach, garden & tractor umbrellas, inflatable dunnage & cushions, air-supported structures & automotive air-spring diaphragms and boat & pool covers.

The cotton quantities include awnings, boat covers, tarpaulins and tents. **Not Included** here are the cotton quanities used for vinyl substrates; such quantities are tabulated with their appropriate end use, i.e., transportation upholstery (Items 63 & 64), upholstery (Item 52), etc. Man-made fiber surfaces for recreational fields are not included in this survey.

76. PAPER & TAPE REINFORCING:
Gummed and pressure-sensitive tape, as well as nonwoven bonded structures for paper, tape and ribbon reinforcing.

79a. FIBERFILL, STUFFING & FLOCK:
All applications (apparel, home furnishings & industrial). Both graded fiber and waste are included. The consumption of polyester staple & tow in fiberfill for the years 1980-1986 inclusive was: 206.1, 228.3, 229.3, 276.5, 277.7, 282.5 & 296.0. For the same years, use of polyester waste for stuffing and filling materials was: 24.0, 20.7, 24.1, 30.4, 24.8, 50.9 & 60.3.

79b. UNALLOCATED NONWOVENS:
All nonwoven quantities remaining after the identifiable nonwoven end uses, such as medical, surgical & sanitary, filtration, coated & protective fabrics, and paper & tape reinforcing, have been calculated.

MISCELLANEOUS INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS:
The cotton for abrasives, book binding, luggage & handbags, shoes & slippers, tobacco cloth, woven wiping cloths and wall-covering fabrics. For rayon, it includes asbestos carrier fiber, laundry supplies and mop yarns. For olefin yarn, it includes agricultural cloth, bale wrap, cable binding, civil engineering fabrics and macramé and other craft yarns.

GRAPH 1:
U.S. FIBER CONSUMPTION BY FIBER TYPE

GRAPH 2:
U.S. FIBER CONSUMPTION BY FIBER TYPE WITHIN END USE MARKET AREA

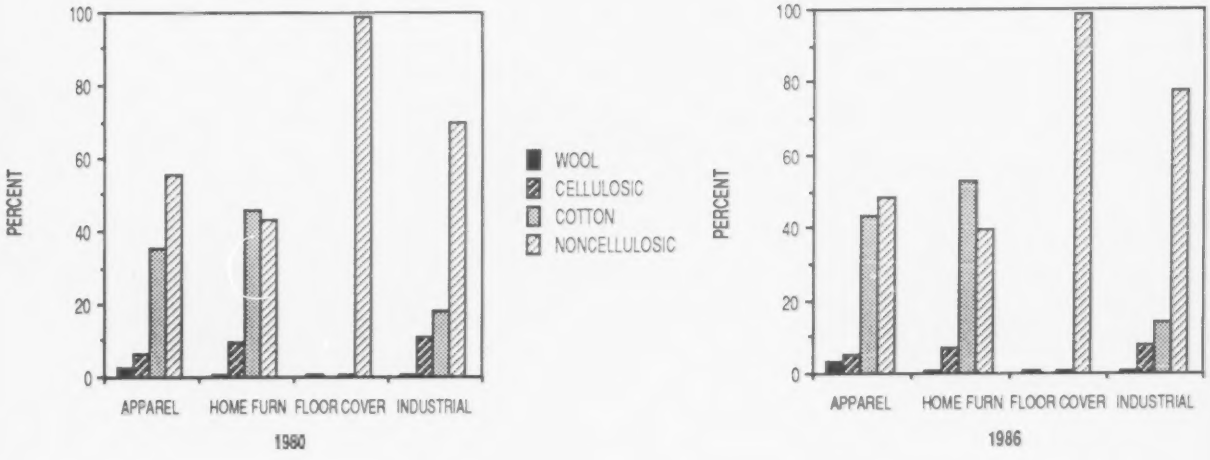

TABLE 11:
SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN

THOUSAND POUNDS

ITEMS & COUNTRY	1987 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1987	1986
CELLULOSIC YARN, MONOFIL & STRIPS														
AUSTRIA	0	138	0	43	42	21	0						244	30
BRAZIL	86	29	0	28	54	88	29						314	191
CANADA	425	368	175	323	285	70	137						1783	2742
GERMANY, FED. REP.	442	229	561	363	332	352	370						2649	3148
JAPAN	209	10	39	39	6	38	66						407	304
MEXICO	3	15	10	102	28	18	58						234	320
NETHERLANDS	101	43	105	147	38	40	42						516	1113
ALL OTHER COUNTRIES [a]	1	3	1	0	1	2	14						22	1310
TOTAL CELLULOSIC YARN	1267	835	891	1045	786	629	716						6169	9158
CELLULOSIC STAPLE+TOW														
CANADA	749	1188	1356	1230	841	1185	420						6969	6035
ITALY	88	0	59	51	61	35	78						372	208
JAPAN	59	168	168	18	98	61	59						631	714
SWEDEN	43	0	0	48	89	39	0						219	445
UNITED KINGDOM	46	5	73	24	0	41	42						231	489
ALL OTHER COUNTRIES [b]	0	63	4	7	0	36	5						115	1953
TOTAL CELLULOSIC STAPLE+TOW	985	1424	1660	1378	1089	1397	604						8537	9844
NONCELLULOSIC YARN, MONOFIL & STRIPS														
BELGIUM	1408	1377	559	560	653	849	671						6077	6904
CANADA	890	1976	1613	1605	1802	1214	1426						10526	8491
CHINA, PRC	0	0	94	0	267	30	0						391	0
COSTA RICA	729	515	642	589	590	564	585						4214	3718
DENMARK	31	62	0	0	32	30	30						185	122
FRANCE	686	685	659	648	306	678	331						3993	3860
GERMANY, FED. REP.	1744	2397	2421	2740	1373	1347	2176						14198	13237
IRELAND	81	58	0	0	106	79	54						378	158
ISRAEL	162	233	90	249	321	97	165						1317	2137
ITALY	1202	866	1292	1254	940	985	1020						7559	7384
JAPAN	964	570	670	661	525	548	523						4461	5371
KOREA, REP. OF	41	21	22	20	60	25	25						214	200
MEXICO	1167	2037	2527	1939	1660	871	1829						12030	5924
NETHERLANDS	93	184	151	99	61	62	154						804	873
SINGAPORE	73	0	66	44	21	23	49						276	82
SWITZERLAND	253	2	64	2	9	1	15						346	435
TAIWAN	14	39	63	46	34	116	104						416	614
UNITED KINGDOM	735	596	844	894	483	670	610						4832	3531
ALL OTHER COUNTRIES [c]	151	142	119	144	48	86	194						884	5509
TOTAL NONCELLULOSIC YARN	10424	11760	11896	11494	9291	8275	9961						73101	68550
NONCELLULOSIC STAPLE+TOW														
AUSTRIA	61	18	130	177	38	312	274						1010	177
BELGIUM	21	36	18	18	53	1	+						147	283
BRAZIL	0	438	236	379	262	297	0						1612	457
CANADA	3125	3071	3201	2248	2236	2507	2725						19113	13046
FRANCE	955	588	532	585	520	1193	279						4652	6214
GERMANY, FED. REP.	2586	2359	2194	2463	1766	1951	2805						16124	19101
IRELAND	109	0	0	0	0	344	91						544	140
ISRAEL	62	0	31	0	291	36	0						420	348
ITALY	2265	1688	2200	980	344	1183	100						8760	10699
JAPAN	1849	1582	2230	2472	1577	2390	1698						13798	13320
KOREA, REP. OF	935	947	655	614	1247	956	1106						6460	2910
MALAYSIA	48	95	0	95	87	95	0						420	96
MEXICO	1586	1232	1784	824	2080	1303	3161						11970	8794
ROMANIA	372	58	590	88	516	749	339						2712	1350
SWITZERLAND	71	152	198	89	17	70	66						663	476
TAIWAN	1911	1559	1338	2580	1985	2003	1774						13150	12455
UNITED KINGDOM	777	1280	1522	1264	1635	1032	953						8463	14048
ALL OTHER COUNTRIES [d]	24	13	135	72	103	7	80						434	1632
TOTAL NONCELLULOSIC STAPLE+TOW	16757	15116	16994	14948	14757	16429	15451						110452	105546

\+ Denotes a quantity which is less than 1 thousand pounds.

a. France 15, Australia 2, Italy 2, Belgium 1, Korea, Rep. of 1, United Kingdom 1.

b. Austria 76, Germany, Fed. Rep. 23, France 8, Venezuela 4, Finland 3, Belgium 1.

c. Spain 138, New Zealand 110, Australia 103, South Africa 88, Romania 81, Argentina 69, Finland 61, Austria 45, Turkey 39, Chile 36, Morocco 33, Norway 32, Philippines 27, Bangladesh 6, Sweden 6, Thailand 4, Brazil 3, Greece 1, Guatemala 1, Iceland 1, Hong Kong.

d. Denmark 133, Costa Rica 91, Australia 63, Hong Kong 62, Turkey 37, China, PRC 17, Netherlands 16, Spain 11, Portugal 2, India 1, Sweden 1, Philippines.

TABLE 12:
U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1987 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1987	1986
CELLULOSIC FIBERS															
YARN - SINGLES															
TEXTURED	310.0106 & .0206	29	139	0	45	57	20	0						290	396
OTHER	310.0130 & .0230 a	1237	691	891	1000	729	607	704						5859	8120
MONOFILAMENTS	309.0310 & .0610	0	5	0	0	0	0	0						5	15
STRIPS, $1/LB & UNDER	309.2000*	1	0	0	0	0	2	12						15	627
SUBTOTAL ABOVE		**1267**	**835**	**891**	**1045**	**786**	**629**	**716**						**6169**	**9158**
STAPLE	309.4320 & .4325	867	1402	1569	1336	1072	1397	542						8185	9043
GROUPED FILAMENTS	309.3010 & .3310	118	22	91	42	17	0	62						352	801
SUBTOTAL ABOVE		**985**	**1424**	**1660**	**1378**	**1089**	**1397**	**604**						**8537**	**9844**
WASTE, ADVANCED&NOT ADVANCED	309.6615 & .7510	**0**	**0**	**0**	**7**	**0**	**21**	**0**						**28**	**76**
NONCELLULOSIC FIBERS															
YARN - SINGLES															
TEXTURED - NYLON															
LESS THAN 450	310.0107 & .0207	142	163	113	123	147	150	188						1026	1700
MORE THAN 450	310.0108 & .0208	2592	2933	3169	3131	1822	1660	1917						17224	17051
- POLYESTER	310.0110 & .0210	1000	2243	1670	1399	1016	650	1165						9143	7127
- OTHER	310.0114 & .0214	1876	2010	1396	1300	1785	1867	1595						11829	11496
OTHER - NYLON	310.0149 & .0249	2008	2121	2350	2348	1695	1694	2086						14302	11666
- POLYESTER	310.0150 & .0250	1918	1327	2088	2006	1590	1438	1693						12060	14196
- OTHER	310.0170 & .0270 b	417	486	610	680	713	358	725						3989	2753
MONOFILAMENTS	309.0200 & .0330 c	272	281	265	263	354	297	329						2061	1620
STRIPS, OVER $1/LB	309.2100 & .2500*	199	196	235	244	169	161	263						1467	941
SUBTOTAL ABOVE		**10424**	**11760**	**11896**	**11494**	**9291**	**8275**	**9961**						**73101**	**68550**
STAPLE - NYLON	309.4331 & .4351	5346	4106	5357	3521	2137	3037	1984						25488	27569
- POLYESTER	309.4336 & .4361	5335	5030	5122	4833	6596	5980	6805						39701	21332
- ACRYLIC	309.4366	1216	839	1202	1285	1073	1724	1521						8860	9595
- OLEFIN	309.4371	2	153	42	38	21	28	37						321	1528
- OTHER	309.4341 & .4390	479	904	1233	1011	918	1567	1152						7264	11544
GROUPED FILAMENTS															
NYLON	309.3030 & .3200	3012	2523	2383	2409	2436	2723	2548						18034	23189
POLYESTER	309.3040 & .3340	367	279	441	383	260	145	297						2172	1113
ACRYLIC	309.3050 & .3350	861	1144	1073	1290	1015	1104	947						7434	7860
OTHER	309.3065 & .3365	139	138	141	178	301	121	160						1178	1816
SUBTOTAL ABOVE		**16757**	**15116**	**16994**	**14948**	**14757**	**16429**	**15451**						**110452**	**105546**
WASTE, NOT ADVANCED															
- NYLON	309.6625	2279	2182	3100	1454	2026	2732	2280						16053	13428
- POLYESTER	309.6630	1077	823	1475	867	525	1035	377						6179	3933
- ACRYLIC	309.6645	20	53	0	18	41	0	18						150	213
- OTHER	309.6660	415	518	810	415	460	339	269						3226	5061
NOILS & GARNETTED FIBERS	309.7000*	0	0	0	0	0	31	0						31	121
OTHER WASTE, ADVANCED	309.7525 - .7555	42	153	67	638	1016	243	848						3007	2269
SUBTOTAL ABOVE		**3833**	**3729**	**5452**	**3392**	**4068**	**4380**	**3792**						**28646**	**25025**
TOTAL MAN-MADE ABOVE		33266	32864	36893	32264	29991	31131	30524						226933	218199
OTHER MAN-MADE FIBER TOPS, YARN & THREAD															
YARN - PLIED															
TEXTURED - CELLULOSIC	310.1506	0	0	+	0	0	0	2						2	30
- NONCELLULOSIC	310.1015 d & .1205 e	142	337	593	392	244	487	299						2494	5860
OTHER - CELLULOSIC	310.1030 & .1535 f	8	85	7	43	19	72	12						246	26
- NONCELLULOSIC	310.1050 & .1070 g	336	339	306	285	157	214	252						1889	395
SPUN YARN - CELLULOSIC	310.4005 & .4030 h	151	112	165	134	80	143	165						930	1544
- OTHER	310.4015 & .4027 i	2574	3765	3232	3780	4318	3892	3561						25122	26327
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	1493	1673	1629	2004	1943	2792	2993						14527	8776
HANDWORK YARNS & SEWING THREAD	310.9000 & .9310 j	831	662	217	690	689	915	811						4815	2915
SLIVER, TOPS & ROVING	309.9000	383	279	281	607	585	1021	594						3750	2006
TEXTILE GLASS FIBER	309.2800 & .2900 k	1431	1672	1653	2285	1279	2046	2459						12825	15895
GRAND TOTAL ABOVE		40615	41788	44976	42484	39285	42713	41672						293533	281973

SOURCE: U.S. Census Bureau Report IM145X.

NES Not elsewhere specified.

+ Denotes a quantity which is less than 1 thousand pounds.

* These items are not reported by the Census as cellulosic vs. noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.

a. Also includes 310.0610.

b. Also includes 310.0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1210.

f. Also includes 310.2110.

g. Also includes 310.1510, .1514, .1550, 1555, .1570, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Also includes 310.9320 & .9500.

k. Chiefly roving. Also includes 309.9800 & .9900.

TABLE 13:
U.S. EXPORTS OF MAN-MADE FIBERS
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1987 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1987	1986
CELLULOSIC FIBERS															
FILAMENT YARN [a]															
TEXTURED	310.0004	43	100	101	24	17	12	36						333	67
OTHER [b]	310.0026	475	365	639	468	654	306	503						3410	4270
MONOFILAMENTS	309.0110	0	0	0	2	0	+	39						41	64
STRIPS	309.2210	1	1	40	2	13	0	3						60	14
SUBTOTAL ABOVE		519	466	780	496	684	318	581						3844	4415
STAPLE+TOW-RAYON	309.4222	3930	1732	3107	2705	2582	2700	4047						20803	18016
STAPLE-ACETATE	309.4219	33	112	156	112	215	164	144						936	1011
SUBTOTAL ABOVE		3963	1844	3263	2817	2797	2864	4191						21739	19027
WASTE, ADVANCED&NOT ADVANCED	309.7400	231	169	47	134	52	35	50						718	1153
NONCELLULOSIC FIBERS															
YARN - SINGLES															
NYLON - TEXTURED	310.0005 & .0007	2678	2441	2542	2077	2760	3503	2614						18615	13769
- HIGH TENACITY [c]	310.0027	7294	6373	5419	6719	7072	5385	8394						46656	42365
- OTHER	310.0029	636	684	605	753	883	1054	571						5186	6024
POLYESTER - TEXTURED	310.0010	2151	2949	3145	2473	2079	1983	1523						16303	56113
- HIGH TENACITY [c]	310.0032	1691	1913	2308	1475	1806	2286	3231						14710	14424
- OTHER [d]	310.0034	160	233	152	75	201	161	122						1104	1694
OTHER - TEXTURED	310.0014	1053	1386	1502	1133	1406	1995	1520						9995	15451
- OLEFIN	310.0040	74	35	53	55	16	72	18						323	1378
- OTHER	310.0044	389	577	654	748	445	737	488						4038	3654
MONOFILAMENTS, ALL DENIERS															
NYLON	309.0120	416	687	641	417	553	676	370						3760	2838
POLYESTER	309.0140	322	523	524	587	1447	1142	954						5499	3467
OTHER	309.0170	478	492	875	480	718	656	502						4201	2602
STRIPS	309.2220 & .2270	259	424	470	342	537	360	203						2595	2238
SUBTOTAL ABOVE		17601	18717	18890	17334	19923	20010	20510						132985	166017
STAPLE - NYLON	309.4240	2060	1757	2615	1445	2092	1258	1694						12921	7947
- POLYESTER	309.4242	18819	17019	16575	14494	13960	15011	11006						106684	57756
- ACRYLIC	309.4245	4792	3355	2531	2440	4482	5365	4746						27711	37245
- OLEFIN	309.4246	1893	2016	2642	2075	1583	1203	1849						13261	7623
- OTHER	309.4247	1004	3194	2027	2959	4586	7965	2919						24654	10185
GROUPED FILAMENTS															
NYLON	309.3220	283	737	386	275	259	470	401						2811	3517
POLYESTER [d]	309.3240	1941	1832	1578	2318	1728	1811	1233						12441	11476
ACRYLIC	309.3250 & .3255	1653	2207	1805	1980	329	1768	2395						12137	14405
SUBTOTAL ABOVE		32445	32117	30159	27986	29019	34851	26243						212820	150154
WASTE, ADVANCED&NOT ADVANCED															
- NYLON	309.7620	1021	1143	1095	1164	1260	1066	225						6974	3838
- POLYESTER	309.7630	2830	4649	5303	5570	5293	4829	3927						32401	34149
- ACRYLIC	309.7640	1086	1362	1545	432	428	701	456						6010	4046
- OTHER	309.7660	2543	3090	5034	2174	2633	3380	1485						20339	24244
SUBTOTAL ABOVE		7480	10244	12977	9340	9614	9976	6093						65724	66277
TOTAL MAN-MADE ABOVE		62239	63557	66116	58107	62089	68054	57668						437830	407043
TEXTILE GLASS FIBER	309.2700 & .9700	5992	6585	7160	7265	7967	7821	6250						49040	33220
GRAND TOTAL ABOVE		68231	70142	73276	65372	70056	75875	63918						486870	440263

SOURCE: U.S. Census Bureau Report EM522.

\+ Denotes a quantity which is less than 1 thousand pounds.

a. Includes thrown, singles and plied yarn.

b. Includes rayon tire cord and cord fabric.

c. Includes noncellulosic tire cord and cord fabric.

d. Includes zero twist yarns.

TABLE 14:
FILAMENT YARN DOMESTIC SHIPMENTS[a]

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
						1986				1987			
		1983	1984	1985	1986	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
(C) CELLULOSIC YARN [i]		*(N) NYLON*				*(P) POLYESTER*				*(O) OLEFIN*			
HOSIERY[b]	N	104.3	101.5	98.1	95.1	26.5	25.3	22.8	20.5	23.6	23.5		
OTHER CIRCULAR KNIT[c]	N	24.5	17.6	12.9	21.3	4.3	6.0	4.0	7.0	7.7	7.0		
	P	293.7	174.7	151.2	150.3	38.6	37.4	37.3	37.0	28.8	38.0		
	C	2.1	2.3	2.6	2.0	0.6	0.6	0.6	0.2	0.4	0.3		
FLAT KNIT	C	79.1	67.2	53.0	47.8	11.4	13.7	11.7	11.0	8.7	8.1		
	N	162.2	135.2	143.6	133.8	36.8	33.2	32.5	31.3	32.0	32.6		
	P	116.6	137.3	160.8	167.1	38.7	38.9	44.5	45.0	37.1	40.0		
CARPET FACE	N	734.6	770.2	815.4	881.4	207.0	217.8	235.6	221.0	228.5	235.4		
	O	147.2	154.1	202.1	215.7	49.7	50.5	53.9	61.6	58.4	60.8		
CARPET BACKING[d]	O	198.8	227.8	354.6	404.1	89.1	98.0	99.4	117.6	98.1	106.9		
OTHER BROAD WOVEN[e]	C	113.6	108.8	111.3	126.3	31.9	31.9	31.7	30.8	26.3	31.7		
	N	83.6	90.7	71.4	76.2	20.2	19.7	18.0	18.3	17.7	19.6		
	P	489.9	392.2	420.1	344.4	87.1	77.5	89.3	90.5	95.1	98.5		
	O	201.1	190.3	225.7	271.5	61.4	66.7	69.3	74.1	68.9	77.1		
NARROW WOVEN[f]	C	1.7	0.7	1.5	2.0	0.9	0.2	0.3	0.6	0.4	0.4		
	N	35.3	39.9	31.1	33.9	8.0	8.6	8.5	8.8	10.2	11.3		
	P	35.5	38.7	40.0	44.0	11.5	10.7	10.9	10.9	12.7	17.1		
	O	15.0	14.9	15.2	17.5	4.5	4.5	4.4	4.1	4.1	3.6		
TIRES, INCL. CHAFER[k]	N	145.5	172.9	146.0	134.2	35.8	33.5	30.5	34.4	38.8	32.5		
	P	174.1	174.4	155.5	159.3	44.7	37.4	39.5	37.7	41.1	41.5		
OTHER RUBBER INDUSTRY[g,k]	N	16.3	20.9	15.3	15.2	4.2	3.6	4.0	3.4	3.8	4.4		
	P	27.8	32.7	31.2	27.2	2.9	8.4	8.2	7.7	8.6	8.8		
ROPE, CORDAGE & FISHLINE	N	31.7	35.0	35.3	36.4	9.6	9.5	8.4	8.9	9.2	9.8		
	P	12.2	15.7	13.8	13.0	3.4	3.4	2.9	3.3	3.4	3.1		
	O	95.5	106.9	108.2	106.3	27.0	28.2	23.4	27.7	25.0	28.2		
ALL OTHER[h]	C	1.1	1.1	18.7	14.0	3.8	4.0	3.4	2.8	3.4	3.1		
	N	54.4	54.2	48.3	52.1	11.0	11.5	13.4	16.2	17.8	18.7		
	P	144.6	179.2	231.7	187.1	57.9	39.8	41.1	48.3	41.0	39.2		
	O	41.0	31.6	31.8	34.1	9.6	10.5	7.4	6.6	7.0	5.2		
TOTAL ABOVE	**C**	**197.6**	**180.1**	**187.1**	**192.1**	**48.6**	**50.4**	**47.7**	**45.4**	**39.2**	**43.6**		
	N	**1392.4**	**1438.1**	**1417.4**	**1479.6**	**363.4**	**368.7**	**377.7**	**369.8**	**389.3**	**394.8**		
	P	**1294.4**	**1144.9**	**1204.2**	**1092.4**	**284.8**	**253.5**	**273.7**	**280.4**	**267.8**	**286.2**		
	O	**698.6**	**725.6**	**937.6**	**1049.2**	**241.3**	**258.4**	**257.8**	**291.7**	**261.5**	**281.8**		
TOTAL DOMESTIC		**3583.0**	**3488.7**	**3746.3**	**3813.3**	**938.1**	**931.0**	**956.9**	**987.3**	**957.8**	**1006.4**		
ALSO DIVIDED AS													
APPAREL		*1257.5*	*1072.1*	*1064.7*	*949.4*	*247.4*	*236.3*	*231.0*	*234.7*	*223.6*	*248.1*		
HOME FURNISHINGS		*1328.7*	*1354.2*	*1624.9*	*1746.8*	*405.5*	*419.7*	*454.8*	*466.8*	*444.1*	*467.1*		
INDUSTRIAL		*996.8*	*1062.4*	*1056.7*	*1117.1*	*285.2*	*275.0*	*271.1*	*285.8*	*290.1*	*291.2*		
SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET)[i]													
NYLON		127.1	118.7	114.9	115.8	29.7	31.3	28.5	26.3	NA	NA		
POLYESTER		832.4	675.5	776.3	634.6	168.9	144.0	158.1	163.6	149.3	165.8		
OLEFIN		28.0	23.3	22.3	22.9	5.1	5.8	5.9	6.1	6.1	6.9		

NA No longer available.

a. Filament yarn plus monofilament shipments by primary trade or end use; olefin includes spunbonded polypropylene but does not include spunbonded polyethylene.

b. Small quantities of polyester and cellulosic yarn are included in All Other.

c. Small quantities of olefin are included in All Other.

d. Small quantities of nylon and polyester are included in All Other.

e. Other Broad Woven except carpets, tire fabric, flat belting, etc.

f. Narrow Woven includes apparel ribbons and braids, auto seat belts and/or furniture webbing.

g. Small quantities of olefin are included in All Other.

h. All Other includes sewing thread and other industrial applications. The olefin quantities include sliver knit backing. Also includes indirect exports.

i. These quantities are included in the Total Domestic area above.

j. Data prior to 1985: acetate yarn only. Data for 1985-1987: acetate and rayon yarn.

k. Cellulosic yarn quantities included in All Other.

TABLE 15:
STAPLE+TOW DOMESTIC SHIPMENTS

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA 1986				QUARTERLY DATA 1987			
		1983	1984	1985	1986	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
(R) RAYON	*(N) NYLON*	*(A) ACRYLIC+MODACRYLIC*				*(P) POLYESTER*				*(O) OLEFIN*			
HOSIERY, SWEATERS & CRAFT YARNS[a]	A	237.3	204.8	197.2	228.8	57.2	62.1	54.9	54.6	57.0	51.4		
	NPR	9.5	6.6	5.5	5.1	1.4	1.2	1.4	1.1	0.8	0.8		
PILE FABRICS[b]	A	33.0	30.0	24.5	23.2	6.0	6.6	6.2	4.4	5.6	5.7		
	P	18.2	18.4	14.9	15.0	4.1	3.5	3.9	3.5	4.4	5.1		
OTHER CIRCULAR KNIT + FLAT KNIT[c]	R	3.5	4.3	5.5	4.7	1.1	1.1	1.1	1.4	1.2	1.3		
	A	129.5	118.5	139.1	196.3	38.7	55.6	56.7	45.3	55.7	53.8		
	P	354.4	283.0	295.5	367.8	87.9	89.2	89.7	101.0	115.2	117.6		
BLANKETS[b]	A	27.1	25.2	30.2	26.7	6.6	6.7	7.7	5.7	5.9	6.6		
	P	10.5	5.5	6.2	3.7	0.8	1.0	1.3	0.6	1.3	1.8		
OTHER BROAD WOVEN	R	182.1	177.7	174.9	218.0	53.9	53.2	55.1	55.8	52.9	55.2		
	N	59.0	42.5	37.4	37.0	10.0	9.7	8.6	8.7	9.2	8.1		
	A	32.5	29.5	38.2	35.3	9.8	8.4	8.4	8.7	9.9	10.9		
	P	1062.9	1039.1	864.9	885.6	226.8	229.8	218.3	210.7	205.3	218.1		
	O	19.4	22.1	26.9	18.0	1.0	5.0	4.9	7.1	4.8	4.7		
CARPET FACE YARNS[f]	R	0.2	0.3	0.5	0.4	0.1	0.2	+	0.1	+	+		
	N	815.2	751.0	773.9	837.8	180.1	188.6	240.8	228.3	230.2	239.3		
	P	139.0	131.4	126.8	145.0	31.3	38.4	36.9	38.4	46.8	50.7		
	O	93.6	96.5	107.4	117.2	25.4	30.4	28.1	33.3	24.3	28.9		
FIBERFILL[d]	P	275.4	276.1	281.1	294.9	71.6	69.1	74.4	79.8	88.9	80.7		
FLOCK	NP	10.6	9.2	5.3	5.9	1.6	1.4	1.2	1.7	1.6	1.0		
	R	3.2	2.7	1.8	1.8	0.6	0.4	0.5	0.3	0.5	0.4		
NONWOVENS[e,f]	R	119.0	126.3	113.5	125.4	31.7	33.2	32.9	27.6	31.1	28.6		
	N	4.9	2.8	2.5	2.1	0.5	0.5	0.5	0.5	0.4	0.4		
	P	177.4	177.2	162.5	175.3	46.5	41.4	42.4	45.0	48.7	47.7		
	VINYON+O	61.5	119.2	135.8	166.2	42.3	45.2	41.1	37.6	49.4	50.4		
ALL OTHER	R	23.8	18.8	25.9	20.8	3.7	3.5	5.0	8.6	6.0	5.3		
	N	5.2	9.4	11.2	11.9	2.9	3.0	3.0	3.0	4.6	4.4		
	A	32.8	38.7	29.5	20.9	4.8	4.3	4.8	7.0	5.3	3.2		
	P	55.8	56.2	116.9	108.3	29.3	26.7	28.6	23.7	23.3	27.6		
	VINYON+O	8.9	3.1	9.6	11.3	5.2	2.0	2.3	1.8	2.6	1.7		
TOTAL ABOVE	**R**	**333.5**	**331.9**	**323.7**	**373.0**	**91.6**	**92.0**	**95.1**	**94.3**	**91.8**	**91.0**		
	N	**897.1**	**814.4**	**830.3**	**894.9**	**195.2**	**203.2**	**254.3**	**242.2**	**246.2**	**253.2**		
	A	**492.2**	**446.7**	**458.7**	**531.2**	**123.1**	**143.7**	**138.7**	**125.7**	**139.4**	**131.6**		
	P	**2099.2**	**1992.2**	**1872.7**	**1998.6**	**499.1**	**499.9**	**496.3**	**503.3**	**534.4**	**549.9**		
	VINYON+O	**183.4**	**240.9**	**279.7**	**312.7**	**73.9**	**82.6**	**76.4**	**79.8**	**81.1**	**85.7**		
TOTAL DOMESTIC		**4005.4**	**3826.1**	**3765.1**	**4110.4**	**982.9**	**1021.4**	**1060.8**	**1045.3**	**1092.9**	**1111.4**		
ALSO DIVIDED AS													
APPAREL		*1461.3*	*1277.1*	*1255.0*	*1489.3*	*363.6*	*390.5*	*372.6*	*362.6*	*386.0*	*388.9*		
HOME FURNISHINGS		*1630.0*	*1559.0*	*1536.9*	*1625.8*	*371.0*	*385.1*	*436.8*	*432.9*	*425.1*	*450.6*		
INDUSTRIAL		*914.1*	*992.1*	*973.2*	*995.3*	*248.3*	*245.8*	*251.4*	*249.8*	*281.8*	*271.9*		

a. Olefin quantities are included in All Other.
b. Rayon and nylon quantities are included in All Other.
c. Nylon quantities are included in All Other.
d. Rayon, acrylic and nylon quantities are included in All Other.
e. Wet & dry laid and needled batts only.
f. Acrylic quantities are included in All Other.

TABLE 16:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1987 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE[a] 1987	1986
MAN-MADE FIBER TOTAL SHIPMENTS[b c]														
YARN+MONOFILAMENTS														
CELLULOSIC YARN	14.6	13.7	15.9	16.5	16.1	16.9	14.6	14.8					123.1	143.8
NYLON[d] - INDUSTRIAL[e]	31.0	32.8	30.6	29.5	35.7	30.0	30.6	31.2					251.4	218.6
- CARPET	75.1	77.6	79.9	76.9	86.2	78.5	80.4	82.5					637.1	588.9
- TEXTILE[g]	30.5	30.4	33.5	32.1	32.4	31.4	31.1	31.5					252.9	242.5
POLYESTER - INDUSTRIAL[e]	26.6	27.6	29.4	27.7	28.0	26.9	26.1	30.0					222.3	206.7
- TEXTILE[g]	63.3	64.0	72.3	75.7	73.6	71.7	72.3	65.5					558.4	566.5
OLEFIN[f]	92.3	87.6	84.3	88.9	91.4	103.2	83.2	99.1					730.0	670.8
TOTAL NONCELLULOSIC ABOVE	318.8	320.0	330.0	330.8	347.3	341.7	323.7	339.8					2652.1	2494.0
STAPLE+TOW+FIBERFILL														
RAYON	34.1	29.7	36.1	33.2	31.6	34.4	33.6	37.0					269.7	265.9
NYLON[d]	84.1	81.2	86.2	88.7	91.1	78.4	81.6	84.2					675.5	571.1
ACRYLIC+MODACRYLIC	49.2	50.7	54.2	51.2	52.3	45.1	47.5	50.0					400.2	413.8
POLYESTER	184.8	192.2	205.6	195.1	193.4	208.4	181.6	186.5					1547.6	1389.9
OLEFIN+VINYON[h]	28.2	27.9	31.9	31.1	30.0	30.3	26.9	32.0					238.3	220.6
TOTAL NONCELLULOSIC ABOVE	346.3	352.0	377.9	366.1	366.8	362.2	337.6	352.7					2861.6	2595.4
MAN-MADE FIBER END-OF-MONTH STOCK														
YARN+MONOFILAMENTS														
CELLULOSIC YARN	17.9	18.2	16.8	15.2	14.7	14.0	14.0	13.3					13.3	13.3
NYLON[d] - INDUSTRIAL[e]	29.2	24.9	26.7	29.0	27.0	25.8	26.5	24.9					24.9	33.6
- CARPET	56.6	55.5	52.3	52.4	48.3	47.7	52.7	49.3					49.3	51.0
- TEXTILE[g]	49.6	49.4	46.5	47.2	47.6	46.8	48.6	47.0					47.0	44.9
POLYESTER - INDUSTRIAL[e]	30.6	30.0	27.8	29.0	28.5	29.4	31.6	28.1					28.1	32.9
- TEXTILE[g]	85.6	88.8	87.6	83.2	80.0	85.7	85.6	85.0					85.0	83.9
OLEFIN[f]	54.7	55.6	54.5	56.3	56.0	54.9	57.0	56.2					56.2	63.4
TOTAL NONCELLULOSIC ABOVE	306.3	304.2	295.4	297.1	287.4	290.3	302.0	290.5					290.5	309.7
STAPLE+TOW+FIBERFILL														
RAYON	24.3	26.1	23.8	24.7	25.9	25.1	25.0	21.2					21.2	19.5
NYLON[d]	59.3	53.8	58.7	57.7	56.4	61.5	66.9	61.6					61.6	68.4
ACRYLIC+MODACRYLIC	68.2	67.9	67.8	70.1	71.6	78.2	73.9	70.0					70.0	56.9
POLYESTER	178.0	169.8	162.3	162.4	171.7	161.6	182.1	180.6					180.6	162.4
OLEFIN+VINYON[h]	33.3	32.6	31.0	30.3	30.8	31.9	34.5	32.9					32.9	30.6
TOTAL NONCELLULOSIC ABOVE	338.8	324.1	319.8	320.5	330.5	333.2	357.4	345.1					345.1	318.3
WOOL & COTTON CONSUMPTION														
APPAREL CLASS WOOL	13.8	13.1	15.0	13.8	13.4	13.8	10.5						93.4	91.6
CARPET CLASS WOOL	0.8	0.8	1.2	1.3	1.3	0.8	1.2						7.4	5.6
TOTAL RAW WOOL	14.6	13.9	16.2	15.1	14.7	14.6	11.7						100.8	97.2
RAW COTTON	302.3	281.8	341.4	301.8	308.4	328.2	261.6						2125.5	1831.5

a. "Year-to-date" totals for stock, are the latest month's figures.
b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
c. Producers' total domestic shipments plus export shipments.
d. Data for nylon exclude Aramid.
e. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
f. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
g. Low denier industrial nylon and polyester included with Textile.
h. 1987 data exclude Vinyon.